A minimum of 120 credits of coursework is required for the baccalaureate degree with a minimum 2.0 overall GPA, and a minimum 2.0 major GPA. However, more than 120 credits may be required depending upon the major field of study.

**Program Requirements**

Students must complete 42 credits of General Education requirements (http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/general-ed-ba-bs) and 3-9 credits of World Languages and Cultures Requirements (http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/world-languages-cultures-requirement).

<table>
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<tr>
<th>Code</th>
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<th>Credits</th>
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<tr>
<td>PHYS 191</td>
<td>University Physics I</td>
<td>4</td>
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<tr>
<td>PHYS 192</td>
<td>University Physics II</td>
<td>4</td>
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<tr>
<td>PHYS 210</td>
<td>Mechanics</td>
<td>4</td>
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<tr>
<td>PHYS 240</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 350</td>
<td>Optics</td>
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<tr>
<td>PHYS 460</td>
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**Physics Elective Courses**

Select 14 credits from the following: 14

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<tr>
<td>EAES 105</td>
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</tr>
<tr>
<td>PHYS 245</td>
<td>Electronics and Digital Circuits</td>
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<tr>
<td>PHYS 280</td>
<td>Astronomy</td>
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<tr>
<td>PHYS 310</td>
<td>Advanced Mechanics</td>
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<tr>
<td>PHYS 320</td>
<td>Thermodynamics</td>
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<tr>
<td>PHYS 368</td>
<td>Fluid Mechanics</td>
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<tr>
<td>PHYS 377</td>
<td>Mathematical Physics</td>
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<tr>
<td>PHYS 430</td>
<td>Computer Simulations of Physical Systems</td>
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</tr>
<tr>
<td>PHYS 462</td>
<td>Nuclear Physics</td>
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<tr>
<td>PHYS 464</td>
<td>Quantum Mechanics</td>
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<tr>
<td>PHYS 470</td>
<td>Solid State Physics</td>
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<tr>
<td>PHYS 490</td>
<td>Literature Research in Physics</td>
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<tr>
<td>PHYS 495</td>
<td>Laboratory Research in Physics</td>
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</table>

**Physics Collateral Courses**

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<tbody>
<tr>
<td>CHEM 120</td>
<td>General Chemistry I</td>
<td>4</td>
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<tr>
<td>CHEM 121</td>
<td>General Chemistry II</td>
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<td>CSIT 111</td>
<td>Fundamentals of Programming I</td>
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<td>MATH 122</td>
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<td>MATH 420</td>
<td>Ordinary Differential Equations</td>
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**Total Credits** 65