PHYSICS MAJOR (B.S.)

120 credits of coursework is required for the baccalaureate degree with a minimum 2.0 overall GPA, and a minimum 2.0 major GPA.

Program Requirements

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

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td><strong>Physics Required Courses</strong></td>
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<tr>
<td>PHYS 191</td>
<td>University Physics I</td>
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<tr>
<td>PHYS 192</td>
<td>University Physics II</td>
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<tr>
<td>PHYS 198</td>
<td>Introductory Physics Seminar</td>
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<tr>
<td>PHYS 210</td>
<td>Intermediate Mechanics</td>
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<tr>
<td>PHYS 220</td>
<td>Oscillations, Waves, and Optics</td>
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<td>PHYS 230</td>
<td>Intermediate Physics Laboratory</td>
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<tr>
<td>PHYS 300</td>
<td>Junior/Senior Physics Seminar</td>
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<td>PHYS 320</td>
<td>Statistical and Thermal Physics</td>
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<td>PHYS 330</td>
<td>Advanced Physics Laboratory</td>
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<tr>
<td>PHYS 340</td>
<td>Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 360</td>
<td>Modern Physics</td>
<td>3</td>
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<tr>
<td>PHYS 464</td>
<td>Quantum Mechanics</td>
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<tr>
<td>PHYS 180</td>
<td>Astronomy for Everyone</td>
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<tr>
<td>PHYS 245</td>
<td>Fundamentals of Electronics</td>
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<tr>
<td>PHYS 280</td>
<td>Astronomy for Physicists</td>
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<tr>
<td>PHYS 310</td>
<td>Advanced Mechanics</td>
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<tr>
<td>PHYS 325</td>
<td>Computational Physics</td>
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<tr>
<td>PHYS 341</td>
<td>Electronics and Digital Circuits</td>
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<td>PHYS 350</td>
<td>Modern Optics</td>
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<td>PHYS 368</td>
<td>Fluid Mechanics</td>
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<td>PHYS 377</td>
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<td>PHYS 380</td>
<td>Observational Astronomy</td>
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<td>PHYS 399</td>
<td>Special Topics in Physics</td>
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<td>PHYS 451</td>
<td>Radiation and Medical Physics</td>
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<td>Special and General Relativity</td>
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<td>PHYS 495</td>
<td>Research or Independent Study in Physics</td>
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<td>CHEM 120</td>
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Total Credits 72-75