M.S., PHYSICS

Program Requirements

Minimum Requirements for Physics M.S. Degree: 30-33 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General University Requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete the general university requirements. (<a href="http://catalog.uaf.edu/graduate/mastersdegrees/#generaluniversityrequirementstext">http://catalog.uaf.edu/graduate/mastersdegrees/#generaluniversityrequirementstext</a>)</td>
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<tr>
<td></td>
<td>Master's Degree Requirements</td>
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<tr>
<td></td>
<td>Complete the master's degree requirements. (<a href="http://catalog.uaf.edu/graduate/mastersdegrees/#masterofsciencewithprojecttext">http://catalog.uaf.edu/graduate/mastersdegrees/#masterofsciencewithprojecttext</a>)</td>
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<td>Physics Program Requirements</td>
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<tr>
<td></td>
<td>Complete four from the following:</td>
<td>12</td>
</tr>
<tr>
<td>PHYS F611</td>
<td>Mathematical Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS F612</td>
<td>Mathematical Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS F621</td>
<td>Classical Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS F622</td>
<td>Statistical Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS F631</td>
<td>Electromagnetic Theory</td>
<td></td>
</tr>
<tr>
<td>PHYS F632</td>
<td>Electromagnetic Theory</td>
<td></td>
</tr>
<tr>
<td>PHYS F651</td>
<td>Quantum Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS F652</td>
<td>Quantum Mechanics</td>
<td></td>
</tr>
<tr>
<td>Thesis or Non-thesis Requirements</td>
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</tr>
<tr>
<td></td>
<td>Complete the thesis or non-thesis option</td>
<td>18-24</td>
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</tbody>
</table>

**THESIS OPTION**

Minimum Requirements for Physics M.S. Degree with Thesis Option: 30 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Thesis Requirements</td>
<td></td>
</tr>
<tr>
<td>PHYS F699</td>
<td>Thesis</td>
<td>6-12</td>
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<tr>
<td></td>
<td>Complete 12 credits from the following:</td>
<td>12</td>
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<tr>
<td></td>
<td>Approved PHYS F600-level courses</td>
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<tr>
<td></td>
<td>Approved ATM F600-level courses</td>
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</table>

**NON-THESIS OPTION**

Minimum Requirements for Physics M.S. Degree with Non-thesis Option: 33 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Non-thesis Requirements</td>
<td></td>
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<tr>
<td>PHYS F698</td>
<td>Non-thesis Research/Project</td>
<td>3-6</td>
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<tr>
<td></td>
<td>Complete 18 credits from approved courses</td>
<td>18</td>
</tr>
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1. At least 24 credits must be regular course work.
2. At least 30 credits must be regular course work.