Undergraduate Minor Program in Astrophysics and Cosmology

Any undergraduate students with an overall CGA of 1.85 or above may enroll in the Astrophysics and Cosmology Minor Program. The program is designed for students with background in physics (e.g. level 3 or above in HKDSE 1/2x or 1x Physics) and/or calculus (e.g. MATH 1014), but also open to other students for enrollment, given that they may be required to take additional course(s) (e.g. PHYS 1001) to acquire relevant foundation. Students must declare their intention to enroll in the Minor Program no earlier than the first regular term of their second year of study but no later than the last day of the add/drop period in the first regular term of their final year of study. Students who wish to withdraw from the Minor Program should apply before the last day of the add/drop period in the first regular term of their final year of study.

Minor Requirements

To graduate with a minor in Astrophysics and Cosmology, students must have enrolled in the Minor Program and complete a minimum total of 21 credits and all of its requirements, as well as the requirements of the major program of study; and have attained an average grade point of at least 1.85 in courses taken within the minor program.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program.

Out of the total credits required by the minor program, at least 9 credits should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement.

Required Course(s)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit(s)</th>
<th>Note</th>
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<tbody>
<tr>
<td>PHYS 1002</td>
<td>3</td>
<td>Introduction to Astrophysics and Astronomy (Subject to approval by program office, students completed both PHYS 4055 and PHYS 4071 may be exempted from this requirement.)</td>
</tr>
<tr>
<td>PHYS 1006</td>
<td>3</td>
<td>Astronomy for Beginners</td>
</tr>
<tr>
<td>PHYS 1111</td>
<td>3</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYS 1112</td>
<td>3</td>
<td>General Physics I with Calculus</td>
</tr>
<tr>
<td>PHYS 1312</td>
<td>3</td>
<td>Honors General Physics I</td>
</tr>
<tr>
<td>PHYS 1114</td>
<td>3</td>
<td>General Physics II</td>
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<tr>
<td>PHYS 1314</td>
<td>3</td>
<td>Honors General Physics II</td>
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<tr>
<td>PHYS 2022</td>
<td>3</td>
<td>Modern Physics</td>
</tr>
<tr>
<td>PHYS/MATH 3036</td>
<td>3</td>
<td>Note: (PHYS 3036 OR PHYS 3037) OR (PHYS 2124 OR MATH 2351 OR MATH 2352)</td>
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<tr>
<td>PHYS 2124</td>
<td>3</td>
<td>Mathematical Methods in Physics I</td>
</tr>
<tr>
<td>PHYS 3036</td>
<td>3</td>
<td>Quantum Mechanics I</td>
</tr>
<tr>
<td>PHYS 3037</td>
<td>4</td>
<td>Honors Quantum Mechanics I</td>
</tr>
<tr>
<td>MATH 2351</td>
<td>3</td>
<td>Introduction to Differential Equations</td>
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<td>Differential Equations</td>
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<tr>
<td>PHYS 3071</td>
<td>PHYS 3071</td>
<td>Introduction to Stellar Astrophysics</td>
</tr>
<tr>
<td>PHYS 4055</td>
<td>PHYS 4071</td>
<td>Note: PHYS 4055 OR PHYS 4071</td>
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<tr>
<td>PHYS 4055</td>
<td>PHYS 4071</td>
<td>Big Bang Cosmology and Inflation</td>
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<tr>
<td>PHYS 4071</td>
<td></td>
<td>Particle Physics and the Universe</td>
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</table>