ASTROPHYSICS, BSLAS

for the degree of Bachelor of Science in Liberal Arts & Sciences Major in Astrophysics

Departmental distinction: A student majoring in astrophysics may earn distinction or high distinction by attaining a minimum grade point average of 3.4 or 3.75, respectively, in required major courses (defined in the table below) taken at UIUC. For highest distinction, in addition to meeting the minimum requirements for high distinction, a senior thesis (ASTR 490) must be completed with strong endorsement by the research supervisor. Questions about eligibility for distinction status should be directed to an astronomy advisor before the senior year.

General education: Students must complete the Campus General Education requirements including the campus general education language requirement.

Minimum required major and supporting course work: Normally equates to 65 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.

Minimum hours required for graduation: 120 hours

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ASTR 210</td>
<td>Introduction to Astrophysics</td>
<td>17</td>
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<tr>
<td>PHYS 211</td>
<td>University Physics: Mechanics</td>
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<td>PHYS 212</td>
<td>University Physics: Elec &amp; Mag</td>
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<td>PHYS 213</td>
<td>Univ Physics: Thermal Physics</td>
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<td>PHYS 214</td>
<td>Univ Physics: Quantum Physics</td>
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<td>PHYS 225</td>
<td>Relativity &amp; Math Applications</td>
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Advanced Astronomy: 15
ASTR 310  Computing in Astronomy (CS 100 is recommended as a prerequisite but not required)

Select three of the following four courses:
- ASTR 404  Stellar Astrophysics
- ASTR 405  Planetary Systems
- ASTR 406  Galaxies and the Universe
- ASTR 414  Astronomical Techniques
At least 3 additional hours of approved 300- or 400-level ASTR courses.
Excluded courses: ASTR 330, ASTR 350, and ASTR 390.

Advanced Physics: 12
PHYS 325  Classical Mechanics I
PHYS 435  Electromagnetic Fields I
At least 6 additional hours of approved 300- or 400-level PHYS courses
Recommended courses include: PHYS 326, PHYS 401, PHYS 402, PHYS 404, PHYS 427, PHYS 436, PHYS 470, and PHYS 486.
Excluded courses: PHYS 398, PHYS 419, PHYS 420, PHYS 495 and PHYS 497.

Advanced Laboratory Techniques: 3
At least one course taken for the Advanced Requirements must be from the following courses:
- ASTR 414  Astronomical Techniques
- PHYS 401  Classical Physics Lab
- PHYS 402  Light
- PHYS 404  Electronic Circuits

Supporting Technical Courses: 18
MATH 220  Calculus (Students with previous calculus experience should consider MATH 221)
or MATH 221  Calculus I
MATH 231  Calculus II
MATH 241  Calculus III
MATH 285  Intro Differential Equations

Information listed in this catalog is current as of 04/2022
or MATH 286  Intro to Differential Eq Plus

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<tr>
<td>MATH 415</td>
<td>Applied Linear Algebra</td>
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