

The University of New Mexico
Department of Physics and Astronomy
505-277-2616

Suggested Schedule For BS in ASTROPHYSICS

This program is flexible; details MUST be discussed with an advisor.
Math Minor built in with three additional hours of Math above 300 level

Freshman First Semester

Physics 160 & 160L.....	3+1
Physics 167*.....	1
Math 162 (Calc I).....	4
Group Requirement	3
Group Requirement	<u>3</u>
	15

Freshman Second Semester

Physics 161 & 161L.....	3+1
Physics 168*.....	1
Group Requirement.....	3
Math 163 (Calc II).....	4
Group Requirement.....	3
Group Requirement.....	<u>3</u>
	18

Sophomore First Semester

Physics 262 & 262L.....	3+1
Math 264 (Calc. III).....	4
Group Requirement	3
Astro. 270 & 270L.....	3+1
Group Requirement	<u>3</u>
	18

Sophomore Second Semester

Physics 330 (Modern Physics).....	3
Math 311 (Vector Calc)	3
Math 316 (ODE's)	3
Astro. 271 & 271L	3+1
Physics 290 (Matlab).....	<u>3</u>
	16

Junior First Semester

Physics 301 (Thermo) & 311 (Prob.).....	3+1
Physics 303 (Mech.I) & 313 (Prob.).....	3+1
Math 312 (PDE's).....	3
Astro. 421 (Intro. Astrophys I)	3
Group Requirement	<u>3</u>
	17

Junior Second Semester

Physics 304 (Mechanics II) & 314 (Prob.).....	3+1
Physics 405 (E&M I) & 415 (Prob.).....	3+1
Group Requirement.....	3
Astro 422 (Intro. Astrophysics II)	3
Group Requirement.....	<u>3</u>
	17

Senior First Semester

Physics 491** (Q. Phys. I) & 496 (Prob.).....	3+1
Astronomy Elective ♦	3
Group Requirement	3
Group Requirement	3
Physics 406** (E&M II) & 416 (Prob.).....	<u>3+1</u>
	17

Senior Second Semester

Astronomy Elective ♦	3
Physics: 492* (Q. Phys. II) & 497 (Prob.).....	3+1
Science/Math Elective.....	3
Group Requirement.....	3
Group Requirement.....	<u>3</u>
	16

- ♦ Astrophysics majors must take 6 hours of Astronomy above the 399 level, in addition to Astr. 421-2. These would normally be selected from Astr. 423-427; Astr. 426 is strongly suggested.
- * Although not required for graduation, these courses are recommended for persons interested in further study of Astronomy.
- ** The student is required to take only one of Phys. 491 or Phys. 406, although both are recommended.

Notes:

- A. All students admitted to Arts and Sciences will be required to have a demonstrated competency in English writing. This may be accomplished by passing any one of several standard tests. See the current catalog.
- B. **Group Requirements.** Please see the Undergraduate Catalog for details about core requirements of the university and the College of Arts and Sciences.
- C. Students within 9 hours of the BS degree may petition to receive **graduate credit** for certain courses. (See the Graduate Bulletin.)
- D. The **Departmental Honors Program** requires 2 semesters of an Honors Section of Astronomy or Physics 456. The student and faculty mentor present a mutually-agreeable topic to the department for approval. Also, the University requires a GPA of at least 3.25. See the Honors web page for more information at <http://panda.unm.edu/AcadAdv/honors.html>
- E. Physics 167 (and 168 and 267) are Recitation Sections associated with Physics 160, 161 and 262, respectively. These recitation sessions are practice in solving problems from the associated lecture courses. They are optional, but very useful.
- F. Math 313, 321, and Physics 466 are especially recommended as electives useful for Astrophysics Majors.