

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

Suggested Schedule For BS in PHYSICS

This program is flexible; details MUST be discussed with an advisor. Math Minor is automatic.

Freshman First Semester

Physics 160 & 160L.....	3+1
Physics 167* (Problems).....	1
Math 162 (Calc I).....	4
Chem. 121L♣.....	4
Group Requirement	<u>3</u>
	16

Freshman Second Semester

Physics 161 & 161L.....	3+1
Group Requirement.....	3
Math 163 (Calc II).....	4
Chem. 122L♣.....	4
Group Requirement.....	<u>3</u>
	18

Sophomore First Semester

Physics 262 & 262L.....	3+1
Math 264 (Calc. III).....	4
Physics 267* (Problems).....	1
Group Requirement	3
Group Requirement	3
Group Requirement	<u>3</u>
	18

Sophomore Second Semester

Physics 330 (Modern Physics)	3
Math 311 (Vector Calc)	3
Math 316 (ODE's)	3
Physics 290 (Matlab).....	3
Group Requirement.....	3
Elective	<u>3</u>
	18

Junior First Semester

Physics 301 (Thermo) & 451 (Prob.).....	3+1
Physics 303 (Mech.I) & 451 (Prob.).....	3+1
Physics 307L (Junior Lab).....	3
Math 312 (PDE's).....	3
Group Requirement	<u>3</u>
	17

Junior Second Semester

Physics 304 (Mechanics II) & 451 (Prob.).....	3+1
Physics 308L (Junior Lab)	3
Physics 405 (E&M I) & 451 (Prob.)	3+1
Math 321 (Linear Algebra)	3
Group Requirement.....	<u>3</u>
	17

Senior First Semester

Physics 406 (E&M II) & 451 (Prob.).....	3+1
Physics 491 (Q. Phys. I) & 451 (Prob.).....	3+1
Science or Math Elective	3
Group Requirement	3
Group Requirement	<u>3</u>
	17

Senior Second Semester

Physics 493L (Sr. Lab).....	3
Physics: 492 (Q. Phys. II) & 451 (Prob.)	3+1
Required Physics Elective.....	3
Group Requirement	3
Group Requirement.....	<u>3</u>
	16

- * Although not required for graduation, these courses are recommended for persons interested in further study of Physics.
- ♣ Chemistry 131L (4 credits) & 132L (5 credits) are Honors Chemistry classes, and are good alternatives for well-prepared students.

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 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, 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 and Physics 466 are especially recommended as electives useful for Physics Majors. Math 314 is **not** an acceptable substitute for Math 321.