

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

**Suggested Schedule For B.S. in PHYSICS**

This program is flexible; details MUST be discussed with an advisor each semester.  
(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 162*	1
Group Requirement	3
Group Requirement	3
Computer Science 151L♦	<u>3</u>
	18

**Sophomore Second Semester**

Physics 330 (Modern Physics)	3
Math 311 (Vector Calc)	3
Math 316 (ODE's)	3
Group Requirement	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 400 (Seminar)*	1
Physics: 491 (Q. Phys I)	3
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)	3
Required Physics Elective	3
Group Requirement	3
Group Requirement	3
Physics 400 (Seminar)*	<u>1</u>
	16

♦ Waived for students with equivalent course or knowledge.

\* 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 B.S. degree may petition to receive graduate credit for certain courses. (See the Graduate Bulletin.)
- D. The Departmental Honors Program requires 2 semesters of the Honors Sections of Physics 451. The student and faculty mentor present a mutually-agreeable topic to the department for approval. Also, there is a GPA requirement of at least 3.25.
- 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. Several upper-division courses have associated 1-hour Problem Sessions, numbered Physics 451-xxx, and labeled as belonging to the associated course.
- G. Math 313 and Physics 466 are especially recommended as electives useful for Physics Majors. Math 314 is *not* an acceptable substitute for Math 321.