

**Requirements for the minor in  
ASTRONOMY AND PLANETARY SCIENCE, 2009-2010**

All courses to be applied to the minor must be completed on a letter-grade basis, with the exception of up to 5 units from the following: Physics 145L, 198, 199.

<b><u>PREPARATION</u></b>	<b><u>UNITS</u></b>
Mathematics 3A-B-C .....	12 _____
Mathematics 5A-B-C .....	12 _____
Physics 1-2-3-4-5 (or Physics 20-21-22-23-24-25) and Physics 3L-4L-5L or 25L, or 13AH-BH-CH .....	20-26 _____

Recommended: Chemistry 1A-B-C, Geology 2. These courses are prerequisite to several of the upper-division elective choices below.

**UPPER-DIVISION**

18 UD units are required, distributed as follows:

Physics 132 .....	4 _____
Physics 133 .....	4 _____
Ten units chosen from Physics 131, 134, 141, 145L, 198*, 199*; Geology 123, 124G, 159A-B, 198*, 199* .....	10 _____

\* Project must be approved by the faculty advisor. In addition, no more than 5 units from Physics 198, 199 and Geology 198, 199 will be accepted toward the minor.

Students must consult the *General Catalog* for prerequisites to required courses.

The following conditions must also be met for official recognition of the minor:

- The sponsoring department reports completion of the minor prior to the posting of the degree.
- At least 18 upper-division quarter units are completed for the minor. (Waivers cannot reduce the requirement below this number.)
- At least 12 of the upper-division units for the minor are completed while in residence at UCSB.
- The UC grade-point average in ALL applicable upper-division courses, including those in excess of minimum requirements, is 2.0 or higher.
- No more than 5 upper-division units overlap between this minor and the upper-division portion of the major(s) or other minor(s). If overlap is greater with the major(s), completion of the minor will not be formally recognized; if overlap with other minor(s) is greater, only the first minor reported will be recognized

No reference will be made to the minor on any progress checks or degree clearance forms.