

FROSH & TRANSFERS
PHYSICS (ASTROPHYSICS) MAJOR
UNIVERSITY OF CALIFORNIA, SANTA CRUZ
2009 – 2010

Requirements for the major in astrophysics include: Physics 5A/L, 5B/M, 5C/N, 5D; Math 19A or 20A, 19B or 20B, 23A, 23B or Phys 14, CMPS elect; plus the twelve upper-division physics courses (and any prerequisites): 101A, 101B, 105, 110A, 110B, 112, 116A, 116B, 116C, 133, 135, and 139A. In addition, students must complete the senior thesis research sequence, 195A-B, and a senior thesis on an astronomy-related topic. Lastly, students must pass at least three upper-division electives selected from the following upper division astronomy and astrophysics courses: 112, 113, 117, 118, or 171. In very special cases, minor exceptions to these requirements may be granted to suit the specific programs of students. Before embarking on a program needing such waivers, plans should be discussed with a physics advisor and an approval must be obtained from the Physics Department.

Note: The astrophysics minor is administered by the Astronomy Department. Please contact Adriane Steinacker at asteinac@ucsc.edu for advising. Physics majors are **not** encouraged to take an astrophysics minor.

Listed below are courses required for an astrophysics major:

	FALL	WINTER	SPRING
1 st Year	Physics 5A/L Math 19A or 20A Physics 10(recommended)	Physics 5B/M Math 19B or 20B	Physics 5C/N Math 23A CMPS elective
2 nd Year	Physics 5D Physics 101A Math 23B	Physics 101B Physics 116A	Physics 116B Physics 133*
3 rd Year	Physics 105 Physics 116C Physics 135*^	Physics 110A Physics 112	Physics 110B Physics 139A Astr Elective
4 th Year	Physics 195A Astr Elective	Physics 195B Astr Elective	

*Physics 133 is offered winter and spring quarters. Physics 135 is offered fall quarter and may be taken junior or senior year after completing Physics 133 and one Astro course.

^Physics 135 is offered in some academic years as a multiple-term course: 135A in fall and 135B in winter or spring, depending on astronomical conditions.

Students transferring to UCSC as junior astrophysics majors should have completed three quarters of introductory calculus-based physics with laboratory and three quarters of calculus. It is also desirable to have an introductory course in modern physics as well as mathematics courses in linear algebra, vector calculus, and differential equations as preparation for upper division physics courses. The Physics Department advises each junior transfer student individually upon their arrival. Students attending an advising session need to bring a copy of their transcript(s) and a course syllabus for each physics course they are transferring to UCSC.

If you would like to have more information, or have any questions, please contact:

Undergraduate Advisor
 831-459-2329
 831-459-3043 (fax)
advisor@physics.ucsc.edu
 211 Interdisciplinary Sciences Building
<http://physics.ucsc.edu>

or

Professor Dave Belanger
 831-459-2871
 831-459-3043 (fax)
dave@dave.ucsc.edu
 245 Interdisciplinary Sciences Building