PHYSICS MAJOR, B.S. DEGREE
SPECIALIZATION: ASTROPHYSICS (PY34)
Total Units: 109

Lower Division (52 units)                      UNITS YET TO COMPLETE
Physics 4A-B-C-D-E or 2A-B-C-D\(^1\) ................................................................. 20 or 16
Physics 2CL and 2DL .............................................................. 4
Chemistry 6A or a programming course\(^2\) ................................................................. 4 or 8
Math 18\(^3\) and 20A-B-C-D-E ................................................................. 24

Upper Division (57 units)
A course that is listed in several areas cannot count towards more than one area and can satisfy only ONE of the major requirements:

1. Physics 100A-B, 105A, 110A, 120, 130A-B, 140A, and an additional laboratory course from the lab group: 122, 124, 133, 164 ................................................................. 37

2. Two courses from either the theoretical or experimental pre-grad-school sequence below ................. 8
   Theoretical pre-grad-school sequence: Physics 100C, 105B, 110B, 130C, 140B
   Experimental pre-grad-school sequence: Physics 100C, 110B, 124, 130C, 140B

3. It is recommended that students take three courses from the astrophysics sequence, but any three courses selected from the list below are acceptable................................................................. 12
   Physics 160, 161, 162, 163, 164, 223, 224, 226, 227, 228; ECE 120, MAE 180A
   astrophysics sequence

MAJOR REGULATIONS

DOUBLE MAJORS ........................................ A student with a double major must fulfill the separate requirements of each major, and the equivalent of at least ten upper-division courses (forty units) must be unique to each major. Courses taken in fulfillment of lower-division requirements may overlap to any degree.

GRADE REQUIREMENTS .............................. A grade point average of 2.0 or higher in the upper-division major is required for graduation. Students must receive a grade of C– or better in all courses to be applied to the major. In exceptional cases, students with a grade point average of 2.5 or higher in the upper-division major may petition to have one grade of D accepted; approval is not guaranteed.

P/NP GRADING OPTION .............................. Not allowed for any courses applied to the major (exceptions are courses completed via AP/IB, and Physics 199).

PREREQUISITES ........................................ Check the General Catalog for the prerequisites to all listed courses.

RESIDENCE REQUIREMENTS ............... At least nine upper-division courses in the major while in residence at UC San Diego.

SUBSTITUTIONS ........................................ Permissible only by approved petition.

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\(^1\) The Physics 4 series is recommended, but the Physics 2 sequence is acceptable, in which case both Chemistry 6A and a programming course are required.

\(^2\) Programming course options: CENG 15; CSE 5A, 7, 8A, 11, 12, 86; MAE 8; NANO 15

\(^3\) The Linear Algebra course previously numbered Math 20F is acceptable.

To see a 4-year, quarter-by-quarter plan for this degree: Go to http://plans.ucsd.edu/
Advising for current UC San Diego students: Go to http://vac.ucsd.edu/
Advising for prospective UC San Diego students: Email advising@physics.ucsd.edu