PHYSICS DEGREE REQUIREMENTS

Basic Requirements
Math 2A____2B____
2D/H2D____2E/H2E____
3A_____3D____

Physics 7C____D____E____
7LC____7LD____
50____60____
61A____61B____
52A____52B____52C____

Physics 53____ (or another programming course)

Physics 111A____B____
Physics 112A____B____
Physics 113A____
Physics 115A____
Physics 121____
Physics 125A____
Physics 194____

Five additional coherently related four-unit courses (these are normally satisfied by tracks, concentrations, or specializations)*.

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*Note: Tracks, concentrations and specializations usually require six or more coherently related courses.

Concentration in Applied Physics
In place of the five coherently related courses students must choose six coherently related Engineering courses. These six courses must be approved in advance by the Department of Physics and Astronomy.
(Note: All upper-division Engineering courses require lower-division prerequisites which should be started in the Freshman and Sophomore years.):

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Specialization in Astrophysics
In place of the five coherently related courses, students take:

Physics 139____
and
Three astrophysics courses from:
Physics 137____138____
144____145____
and
Any two approved upper division Physics electives

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Concentration in Biomedical Physics
In place of the five coherently related courses, students take:

Bio Sci 97____98____99____
Chem 1A____B____C____
1LC____LD____
Chem 51A____51B____; or
H52A____H52B____

Concentration in Computational Physics
In place of the five coherently related courses, students take:

ICS 31____32____33____
Math 105A____105LA____
Math 105B____105LB____
Math 107____107L____

Concentration in Philosophy of Physics
In place of the five coherently related courses, students take:

One course selected from:
Philosophy or LPS 30____
104____105A____B____C____
Math 150____151____152____

One course selected from:
History 60____135B____
135C____or an approved alternative

Three courses selected from:
Philosophy or LPS 102____121____
141A____141B____141C____141D____

The following three courses:
Philosophy or LPS 31____
Philosophy or LPS 140____
Physics 113B____

Concentration in Physics Education
In place of the five coherently related courses, students take:

Physics 193____
Educ 55____
Phy Sci 5____105____
(Phy Sci 106 is recommended)

Four courses selected from:
Bio Sci 1A____or
Bio Sci 93____94____
Chem 1A____1B____1C____
ESS 1____ESS 7____
Physics 20A____20B____
Secondary Teaching Certification Option:

With additional coursework and field experience, students who complete the Concentration in Physics Education can also earn a California Preliminary Single Subject Teaching Credential in four years with careful, early planning.

All of the following are required:
LPS 60____Educ 109____
**Educ 143A____143B____148____
Educ 158 (2 quarters) ____

**Educ 143A-B and 148 will be accepted in lieu of Physics 125A and 194.