PHYSICS DEGREE REQUIREMENTS

Basic Requirements
Math 2A____2B____
2D/H2D____2E/H2E____
2J____3D____Physics 50____
Physics
7A____B____D____E____
7LA____LB____LD____
Physics 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 196C or H196C
or 197____

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 5 coherently related courses students must choose 6 coherently related Engineering courses. These 6 courses must be approved in advance by the Department of Physics and Astronomy.
(Please 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____
1LB____LC____
Chem 51A____51B____; or
H52A____H52B____

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

ICS 21____22____23____
Note: Math 6D is a prerequisite for ICS 23.
Math 105A____105LA____
Math 105B____105LB____;
Math 107____107L____ or
Physics 131____

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____135A____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:

Five courses selected from:
Bio Sci 1A____1B____ or
Bio Sci 93____94____
Chem 1A____1B____1C____,
ESS 1____ or 25____,
ESS 7____,
Physics 20A____20B____
and
Education 173____ or 176____
and
The following three courses:
Physical Sciences 5____105____106____
(Physics 191 is encouraged)