

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)*.

*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.):

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

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)