

PHYSICS DEGREE REQUIREMENTS

Basic Requirements

- Math 2A Math 2B Math 2D
 Math 2E Math 3A Math 3D

Physics 7C-7D-7E-7LC-7LD

Physics 50 Physics 60

Physics 61A

Physics 61B **OR** 61C

Physics 52A

Physics 52B

Physics 52C

Physics 53 (or another programming course)

Physics 111A Physics 111B

Physics 112A Physics 112B

Physics 113A

Physics 115A

Physics 121W

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.

Specialization in Astrophysics

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

Physics 61C Physics 139

Three courses from:

Physics 137, 138, 144, 145

Two approved upper division Physics electives

Concentration in Philosophy of Physics

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

LPS 31 Physics 113B

One course selected from:

LPS 40, 60, H80, H125

Soc Sci H1G

One course selected from:

LPS 30, 104, 105A, 105B, 105C

Math 150, 151, 152

One course selected from:

LPS 104, 105A, 105B, 105C, 140

Math 150, 151, 152

History 135D (when topic is Physics)

Or another approved course

Three courses selected from:

LPS 141A, 141B, 141C, 141D

Or another approved Philosophy of Physics course

Concentration in Computational Physics

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

ICS 31 ICS 32 ICS 33

Math 105A-105LA

Math 105B-105LB

Math 107-107L

Concentration in Physics Education

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

Phy Sci 5 Phy Sci 105

Educ 55 Physics 193

Four courses selected from:

Bio Sci 1A, 93, 94

Chem 1A, 1B, 1C

ESS 1, 7

Physics 20A, 20B

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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 Educ 143B

Educ 148

Educ 158 Educ 158

(two quarters required)

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