

# 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

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**Two** approved upper division Physics electives

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## 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

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**One** course selected from:

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

Math 150

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**One** course selected from:

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

Math 150

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**Three** courses selected from:

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

Or another approved Philosophy of Physics course

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## 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 143AW  Educ 143BW

Educ 148

Educ 158  Educ 158

(two quarters required)

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