## PHYSICS DEGREE REQUIREMENTS

## courses, students take: In place of the five coherently related courses, students take: **Basic Requirements** □ Physics 61C □ Physics 139 $\square$ ICS 31 $\square$ ICS 32 $\square$ ICS 33 □ Math 2A □ Math 2B □ Math 2D **Three** courses from: Physics 137, 138, 144, 145 ☐ Math 105A-105LA □ Math 2E □ Math 3A □ Math 3D ☐ Math 105B-105LB □ \_\_\_\_\_ ☐ Physics 7C-7D-7E-7LC-7LD ☐ Math 107-107L ☐ Physics 50 ☐ Physics 60 Two approved upper division Physics **Concentration in** ☐ Physics 61A electives **Physics Education** ☐ Physics 61B **OR** 61C In place of the five coherently related courses, students take: ☐ Physics 52A **Concentration in** ☐ Phy Sci 5 ☐ Phy Sci 105 ☐ Physics 52B **Philosophy of Physics** ☐ Educ 55 ☐ Physics 193 ☐ Physics 52C In place of the five coherently related Four courses selected from: ☐ Physics 53 (or another courses, students take: Bio Sci 1A, 93, 94 Chem 1A, 1B, 1C programming course) ☐ LPS 31 ☐ Physics 113B ESS 1, 7 One course selected from: Physics 20A, 20B LPS 40, 60, H80, H125 □ Physics 111A □ Physics 111B Soc Sci H1G □ Physics 112A □ Physics 112B ☐ Physics 113A One course selected from: LPS 30, 104, 105A, 105B, 105C **Secondary Teaching Certification** ☐ Physics 115A Math 150, 151, 152 **Option:** ☐ Physics 121W With additional coursework and field One course selected from: experience, students who complete the ☐ Physics 125A LPS 104, 105A, 105B, 105C, 140 Concentration in Physics Education can Math 150, 151, 152 also earn a California Preliminary ☐ Physics 194 History 135D (when topic is Physics) Single Subject Teaching Credential in Or another approved course four years with careful, early planning. Five additional coherently related four-unit courses (these are normally All of the following are required: satisfied by tracks, concentrations, or Three courses selected from: specializations)\*. LPS 141A, 141B, 141C, 141D □ LPS 60 □ Educ 109 Or another approved Philosophy of □ Educ 143A □ Educ 143B Physics course O\_\_\_\_\_ □ Educ 148 ☐ Educ 158 ☐ Educ 158 □ \_\_\_\_\_ (two quarters required) \*\*Educ 143A-B and 148 will be accepted in lieu of Physics 125A \*Note: Tracks, concentrations and and 194. specializations usually require six or

**Specialization in Astrophysics** 

In place of the five coherently related

**Concentration in** 

**Computational Physics** 

more coherently related courses.