

Summary of Physics Major Emphases

Option	Physics Major	Comprehensive Emphasis	Astrophysics Emphasis	Environmental Physics Emphasis	Geophysics Emphasis	Chemical/ Materials Science Emphasis	Teaching Emphasis	Computational Physics Emphasis
REQUIRED	MA 126 & 129 MA 204	MA 126 & 129 MA 204 MA 120	MA 126 & 129 MA 204 MA 120	MA 126 & 129 MA 204	MA 126 & 129 MA 204	MA 126 & 129 MA 204	MA 126 & 129 MA 204	MA 126 & 129 MA 204
	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 +3 physics electives (320 or higher)	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 PC 311 PC 341 PC 349 PC 353 PC 441 +1 physics elective (320 or higher)	PC 241 & 242 PC 251 PC 261 PC 362 PC 450 PC 311 PC 341 PC 353 PC 357 PC 358 PC 441	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 or EV 499 +2 physics electives (320 or higher; see recommended choices below)	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 +3 physics electives (320 or higher; see recommended choices below)	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 +3 physics electives (320 or higher; see recommended choices below)	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 +3 physics electives (320 or higher) ED 100 ED 120 +2 lab-based intros in biology, chemistry, or geology	PC 241 & 242 PC 251 PC 261 PC 361 or 362 PC 450 PC 263 +2 physics electives (320 or higher; see recommended choices below)

Option	Physics Major	Comprehensive Emphasis	Astrophysics Emphasis	Environmental Emphasis	Geophysics Emphasis	Chemical/ Materials Science Emphasis	Teaching Emphasis	Computational Physics Emphasis
RECOMMENDED	Additional advanced physics or math courses.	PC 354 PC 442 PC 420 PC 263 CP 122 One or more summer research programs	PC 442 PC 349 PC 354 PC 420 PC 263 One or more summer research programs	PC 333 PC 341 PC 349 PC 441 MA218/EV228 MA 120 MA 315 Intro courses in biology, chemistry, or geology One or more summer research programs	PC 333 PC 341 PC 349 PC 354 Additional advanced physics, geology, or math courses, esp. MA 313, MA 120, MA 316, MA 318 CP 122 CH 107 One or more summer research programs	PC 333 PC 349 PC 354 PC 441 PC 442 CH 241 CH 250 Additional advanced physics, chemistry, or math courses Additional lab work One or more summer research programs	PC 133 Additional education courses, such as ED 203 or 275 (ED 275 is particularly useful for those interested in Teach for America)	PC 341 PC 349 PC 353 PC 441 PC 442 CP 344 CP 360 CP 407 MA 201 MA 120 MA 251 One or more summer research programs

Updated 4/21/2023