

Physics Major (B.S.) Checklist (Fall 2020)

Course(s)	Suggested Year	Done	Need
Prerequisite Courses			
* MATH 121 Calculus I	FR		
* MATH 122 Calculus II	FR		
Core Courses (10.5 Units)			
PHYS 190 Physics & Engineering Colloquium	FR		
PHYS 201 Newtonian Mechanics	FR		
PHYS 202 Electricity and Magnetism	SO		
PHYS 203 Atomic, Molecular, & Optical Physics	SO		
PHYS 270 Math Methods for Physics	SO		
PHYS 310 Experimental Analysis	JR		
PHYS 330 Theoretical Mechanics	JR/SR		
PHYS 350 Electromagnetic Theory	JR/SR		
PHYS 370 Thermal Physics	JR/SR		
PHYS 390 Quantum Mechanics	JR/SR		
PHYS 490 Senior Seminar: Physics Capstone	SR		
Advanced Topics Course (CHOOSE ONE)			
PHYS 410 Biophysics	JR/SR		
PHYS 430 Astrophysics	JR/SR		
PHYS 450 Physics of Materials	JR/SR		
PHYS 470 Optics and Spectroscopy	JR/SR		
Cross-Disciplinary Course (CHOOSE ONE)			
CPSC 120 (Programming)			
CHEM 112 or 118 (General Chemistry II)			
BIOL 210 (Cell Biology)			
PHYS 250 (Nanomaterials), 299 (Special Topics)			
ENGS 191, 192, 301, 302, 303, or 304			
Other Elective (CHOOSE ONE)			
MATH 332 Applied Differential Equations	JR/SR		
Additional 400-level PHYS Course: _____	JR/SR		

\* Note that MATH 121 and MATH 122 are prerequisites for PHYS 201 and PHYS 202 but do not count as part of the physics major itself.

Note that this check sheet is intended as a guide; the Academic Catalog contains more details and nuances, and students are encouraged to check that book along with the academic advisors as needed.