

PHYSICS BS DEGREE

Suggested Schedule for Freshman Start

	Fall		Spring	
Freshman	MATH-112 PHYS-151	Calculus II Physics I	MATH-211 PHYS-152	Multivariable Calculus Physics II
Sophomore	MATH-212 PHYS-220 PHYS-253	Differential Equations Math for Science & Eng. Modern Physics	PHYS-212 PHYS-365	Computational Modeling Electricity & Magnetism
Junior	PHYS-361 PHYS-421	Classical Mechanics Thermo. & Stat. Mech	PHYS-461 PHYS-444	Quantum Mechanics Adv. Undergrad Lab.
Senior	PHYS-???	Elective 1	PHYS-???	Elective 2

Note: These are merely suggested, sample schedules. The one above is quite accelerated. Others, like the one below, reflect a gentler first two years. And more tailoring to your individual situation is possible too...please feel free to reach out to your advisor and/or the physics department's Director of Undergraduate Studies. Be mindful that most core physics courses are only offered once per year (either always in Fall or always in Spring). Electives can switch around year to year, and PHYS-444 is often offered both in Fall and Spring.

Suggested Schedule for Sophomore Start

	Fall		Spring	
Freshman	MATH-111	Calculus I	MATH-112	Calculus II
Sophomore	PHYS-151 MATH-211	Physics I Multivariable Calculus	PHYS-152 MATH-212 PHYS-212	Physics II Differential Equations Computational Modeling
Junior	PHYS-253 PHYS-220	Modern Physics Math for Science & Eng.	PHYS-365 PHYS-421	Electricity & Magnetism Adv. Undergrad Lab.
Senior	PHYS-361 PHYS-421 PHYS-???	Classical Mechanics Thermo. & Stat. Mech. Elective 1	PHYS-461 PHYS-???	Quantum Mechanics Elective 2

Schedule for Junior Start (First two years at Oxford or elsewhere)

*Note: PHYS 151, 152, 253, and 212 are all offered at Oxford
(as are MATH 111, 112, 211, and 212)
and could be completed in a student's freshman and sophomore years there.*

	Fall		Spring	
Freshman	MATH-111	Calculus I	MATH-112	Calculus II
Sophomore	PHYS-151 MATH-211	Physics I Multivariable Calculus	PHYS-152 MATH-212	Physics II Differential Equations
Junior	PHYS-220 PHYS-253 PHYS-361	Math for Science & Eng. Modern Physics Classical Mechanics	PHYS-212 PHYS-365	Computational Modeling Electricity & Magnetism
Senior	PHYS-421 PHYS-444 PHYS-???	Thermo. & Stat. Mech. Adv. Undergrad Lab. Elective 1	PHYS-461 PHYS-???	Quantum Mechanics Elective 2

One elective must be 300-level or higher.

The other elective must be 200-level or higher.

One of the electives may be satisfied by four credits of either directed study or research. (All four credits must be earned in one semester for one course: 397, 495, or 499.)