

BIOPHYSICS BS DEGREE

Suggested Schedule for Freshman Start

	Fall	Spring
Freshman	BIOL-141 (+lab) or CHEM-150 (+lab) MATH-112 Calculus II PHYS-151 Physics I	MATH-211 Multivariable Calculus PHYS-152 Physics II
Sophomore	MATH-212 Differential Equations PHYS-220 Math for Science & Eng. PHYS-253 Modern Physics	PHYS-212 Computational Modeling PHYS-365 Electricity & Magnetism
Junior	PHYS-361 Classical Mechanics PHYS-421 Thermo. & Stat. Mech.	PHYS-444 Adv. Undergrad Lab. PHYS-461 Quantum Mechanics PHYS-???
Senior	PHYS-???	PHYS-???

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	BIOL-141 (+lab) or CHEM-150 (+lab) MATH-111 Calculus I	MATH-112 Calculus II
Sophomore	PHYS-151 Physics I MATH-211 Multivariable Calculus	PHYS-152 Physics II PHYS-212 Computational Modeling MATH-212 Differential Equations
Junior	PHYS-253 Modern Physics PHYS-220 Math for Science & Eng.	PHYS-365 Electricity & Magnetism PHYS-444 Adv. Undergrad Lab. PHYS-???
Senior	PHYS-361 Classical Mechanics PHYS-421 Thermo. & Stat. Mech. PHYS-???	PHYS-461 Quantum Mechanics PHYS-???

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	BIOL-141 (+lab) or CHEM-150 (+lab) MATH-111 Calculus I	MATH-112 Calculus II
Sophomore	PHYS-151 Physics I MATH-211 Multivariable Calculus	PHYS-152 Physics II MATH-212 Differential Equations
Junior	PHYS-253 Modern Physics PHYS-220 Math for Science & Eng.	PHYS-212 Computational Modeling PHYS-365 Electricity & Magnetism PHYS-???
Senior	PHYS-361 Classical Mechanics PHYS-421 Thermo. & Stat. Mech. PHYS-???	PHYS-444 Adv. Undergrad Lab. PHYS-461 Quantum Mechanics PHYS-???

*The Biophysics electives are chosen from PHYS 434, PHYS 552, PHYS 554, and PHYS 556.

The research course is PHYS 397R, PHYS 499R, or PHYS 495R, and must be 4 credits as a single course. Only one semester of research is required, but you are encouraged to begin research as soon as your schedule permits.