

QUANTUM INFORMATION CONCENTRATION WITHIN 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-445	Quantum Mechanics Mat. & Quant. Phys. Lab.
Senior	PHYS-422	Modern Materials and <i>(semester these are offered can vary)</i>	PHYS-463	Quant. Comp. & Info.

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 from Fall to Spring. PHYS 422 and PHYS 463 have pre-requisites that allow their completion earlier than Senior Year.

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-445	Electricity & Magnetism Mat. & Quant. Phys. Lab.
Senior	PHYS-361 PHYS-421 <i>(422 and/or 463 may be offered in Fall some years)</i>	Classical Mechanics Thermo. & Stat. Mech.	PHYS-461 PHYS-422 PHYS-463	Quantum Mechanics Modern Materials Quant. Comp. & Info

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 <i>(422 and/or 463 may be offered in Fall some years)</i>	Thermo. & Stat. Mech. Adv. Undergrad Lab.	PHYS-461 PHYS-422 PHYS-463	Quantum Mechanics Modern Materials Quant. Comp. & Info.