

PHYSICS BS DEGREE

Suggested Schedule for Freshman Start

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

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

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.)