

7-YEAR BS/MD (MEDICAL) PROGRAM IN PHYSICS
Suggested 3 Year Course Sequence

Freshmen Year

PHY 099 – Orientation to Physics (0-credit)

PHY 203- Physics for Physicists I*

MAT 127-Calculus A*

CHE 201-Gen. Chem. I*

Language I*

First Seminar

PHY 204-Physics for Physicists II*

MAT 128-Calculus B*

CHE 202-Gen. Chem. II *

Language II*

Liberal Learning I*

** At least 2 of these must be AP credit, placement, or taken before the freshman year*

Freshmen Summer

Liberal Learning II

Liberal Learning III

(May be taken in Fall/ Spring Freshmen year, if AP credits or placed out of > 2 courses)

Sophomore Year

PHY 306-Mathematical Physics

CHE 331-Organic Chem. I

Physics Option I

Language III

Physics Option II (one of the following):

- PHY 316 – Biomedical Physics
- PHY 336 – Biophysics
- PHY 451 – Advanced Experimental Phys. (can count as Capstone)
- PHY 493 – Independent Research II (can count as Capstone)

PHY 321-Modern Physics

CHE 332-Organic Chem. II

BIO 185-Themes in Biology

Sophomore Summer

One of the following:

- PHY 493-Independent Research II (can count as Capstone)
- PHY 399-Physics Research Internship

Junior Year

PHY 401-Classical Mechanics

PHY 421-Electromagnetic Theory I

Physics Option III

Liberal Learning IV

Physics Option V (one of the following):

- PHY 316-Biomedical Physics
- PHY 336 – Biophysics
- PHY 451 – Advanced Experimental Phys. (can count as Capstone)
- PHY 493 – Independent Research II (can count as Capstone)

PHY 416 – Thermal Physics

BIO 231-Genetics

Physics Option IV

Junior Summer

Liberal Learning V

(May be taken in Fall/ Spring Junior year, if AP credits or placed out of > 2 courses)

Senior Year (Completed while at NJMS)

Biochemistry (equivalent to CHE 430)

Liberal Learning VI (Psychiatry)