



Advisers	Mrs. Miriam Schechter, Director	mschecht@yu.edu
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Physical Sciences Major Total Credits: 49-52

Faculty	Dr. Mark Edelman	medelma1@yu.edu
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Do you like Physics, Biology, Chemistry, Mathematics, and Computer Science? Can't decide which one you like best? Or, do you want to be an engineer and get a B.A. degree in sciences with a concentration in the future field of engineering of your choice?

As a physical sciences major, you'll choose an area to focus on, in any of the above fields. You will be prepared for jobs in many technical fields or you can choose to go to an engineering or graduate school. If you are interested in engineering meet with Dr. Ed Berliner (eberline@yu.edu).

Required Courses		40 Credits
CHEM 1045C	General Chemistry I, Lecture & Lab	4 Credits
COMP 1300	Introduction to Computer Science	4 Credits
MATH 1412, 1413	Calculus I, Calculus II	8 Credits
MATH 1510	Multivariable Calculus	4 Credits
MATH 2105	Linear Algebra	3 Credits
MATH 2601	Differential Equations	3 Credits
PHYS 1041, 1042C	General Physics, Lecture & Lab	8 Credits
PHYS 2051	Intermediate Physics I	3 Credits
PHYS 2052	Intermediate Physics II	3 Credits

Plus three (3) additional courses related to the particular field(s) of engineering in which the student is interested. At least one course should be a senior level course.

- 1) **Concentration in Chemistry:** General Chemistry II, Organic Chemistry I (lecture/lab) and one advanced chemistry elective.
- 2) **Concentration in Electromagnetism:** two semesters of Electromagnetic Theory and one semester of Intermediate Physics lab.
- 3) **Concentration in Mechanics:** two semesters of Classical Mechanics and one semester of Intermediate Physics Lab.
- 4) **Concentration in Computer Science:** Data Structures and two advanced electives.
- 5) **Concentration in Biology:** two semesters of Principles of Biology (lecture/lab) and one advanced Biology elective.

Plus ECON 1031 – Intro to Microeconomics, which may also apply toward the “Foundations” category.

Exit Requirement: Departmental exam.