



Advisers	Dr. Jill Katz	jckatz@yu.edu
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Physical Sciences Major **Total Credits: 52-56**

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. Lea Santos (lsantos2@yu.edu).

Required Courses		43 Credits
CHEM 1045C	General Chemistry I, Lecture & Lab	4 Credits
COMP 1300C	Intro to Computer Science	4 Credits
ECON 1010**	Principles of Economics	3 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 1051C, 1052C	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. Students must meet with Dr. Santos to design their concentration. Some examples are:

- 1) **Concentration in Chemistry:** CHEM 1046C, CHEM 1213R, CHEM 1215L, CHEM elective
- 2) **Concentration in Electromagnetism:** PHYS 1321, PHYS 1322, PHYS elective.
- 3) **Concentration in Mechanics:** PHYS 1221, PHYS 1222, PHYS elective
- 4) **Concentration in Computer Science:** COMP 1320C, 2 advanced COMP electives
- 5) **Concentration in Biology:** BIOL 1011C, BIOL 1012C, advanced BIOL elective

* Math 1413 and MATH 2105 may count towards the General Ed. Elective category

** ECON 1010 may count towards General Ed. Foundations category