



<b>Advisers</b>	Mrs. Miriam Schechter, Director .....	mschecht@yu.edu
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**Pre-Engineering Major** **Total Credits: 47\***

<b>Faculty</b>	Dr. Mark Edelman .....	medelma1@yu.edu
	Dr. Lea Ferreira dos Santos .....	lsantos2@yu.edu
	Dr. Emil Prodan .....	prodan@yu.edu
	Dr. Edward Berliner .....	eberline@yu.edu

<b>Required Courses</b>		<b>Credits</b>
CHEM 1045C, 1046C	General Chemistry, Lecture & Lab	8 credits
COMP 1300C	Introduction to Computer Science	4 credits
ECON 1031	Introduction to Microeconomics	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 1041C, 1042C	General Physics, Lecture & Lab	8 credits
PHYS 2051	Intermediate Physics I	3 credits
PHYS 2052	Intermediate Physics II	3 credits

Students interested in engineering may pursue the Pre-engineering major or opt for a related major in Physics, Physical Sciences, Biology, Chemistry or Mathematical Sciences.

The Pre-engineering major is open to students who enter SCW with AP Physics credits and who can complete the major, general and **reduced** Jewish Studies requirements (4 semesters of Core+ 14 JS credits) in 3 years- either one year in Israel and two years at SCW, or three years at SCW.

They must continue their studies through a Combined Program in engineering with either Columbia University (BS) or State University of New York at Stony Brook (BE). Students who do not continue at a school of engineering, must complete a total of 6 semesters of Core and change their major (e.g., Physical Sciences or a Shaped Major) in order to receive the BA degree from SCW.

To be eligible for admission to Columbia through the Combined Program in Engineering, Pre-engineering majors must meet the SCW graduation requirements specified above, other than the 128 credits, as well as all Columbia requirements listed in the Columbia Combined-Plan Guide (available at the Academic Advisement Center). Provided that they maintain a 3.3 GPA overall with no grade lower than a B in courses required by Columbia and receive the recommendation of the pre-engineering advisor, the students are guaranteed admission to the two-year program at either Columbia or Stony Brook.

If admitted, students should file for a Leave of Absence and not file for graduation from SCW.

After successfully completing the two year program at either school these students file for a BA from YU, and a BS from Columbia or a BE from Stony Brook.

Students interested in the Columbia Program (BS) or the Stony Brook Program (BE) should meet with Dr. Ed Berliner.

\* Additional courses may be required depending on the particular track of Engineering in a partner school in the Combined program.