



Advisers	Dr. Jill Katz	jckatz@yu.edu
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Physics Major **Total Credits: 50-51**

Faculty	Dr. Lea Ferreira dos Santos	lsantos2@yu.edu
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Required Courses		44 Credits
PHYS 1051C,1052C	General Physics, Lecture & Lab	8 Credits
PHYS 1221	Classical Mechanics	3 Credits
PHYS 1321	Electromagnetic Theory	3 Credits
PHYS 1340	Computational Methods in Science and Research	3 Credits
PHYS 1510	Thermodynamics and Statistical Mechanics	3 Credits
PHYS 1621	Quantum Mechanics	3 Credits
PHYS 2051	Intermediate Physics I	3 Credits
PHYS 2052	Intermediate Physics II	3 Credits
MATH 1412, 1413*	Calculus I, Calculus II	8 Credits
MATH 1510	Multivariable Calculus	4 Credits
MATH 2105*	Linear Algebra	3 Credits
Plus one (1) additional course from the following electives:		3 Credits
PHYS 1222	Classical Mechanics-II	3 Credits
PHYS 1322	Electromagnetic Theory-II	3 Credits
PHYS 1401	Introduction to Solid State Physics	3 Credits
PHYS 1810	Intermediate Experimental Physics	3 Credits
Plus one (1) additional course from the following electives:		3-4 Credits
COMP 1300C	Introduction to Computer Science	4 Credits
MATH 2651	Numerical Analysis	3 Credits
PHYS 1140	Mathematical Physics	3 Credits

* MATH 1413 and MATH 2105 may count towards the General Ed. Elective category
MATH 2601 is highly recommended, but not required

Physics Minor **Total Credits: 17**

Required Courses		14 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 one (1) additional course from the following electives:		
PHYS 1140	Mathematical Physics	3 Credits
PHYS 1221	Classical Mechanics-I	3 Credits
PHYS 1321	Electromagnetic Theory-I	3 Credits
PHYS 1340	Computational Methods in Science and Research	3 Credits
PHYS 1510	Thermodynamics and Statistical Mechanics	3 Credits
PHYS 1810	Intermediate Experimental Physics	3 Credits