



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

<b>Faculty</b>	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