Yeshiva University
STERN COLLEGE FOR WOMEN
Academic Advisement Center

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Physics Major — Total Credits: 55-56

Faculty	Dr. Anatoly Frenkel	anatoly.frenkel@yu.edu
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Required Courses		**49 Credits**
PHYS 1041C,1042C	General Physics, Lecture & Lab	10 Credits
PHYS 1120	Introduction to Modern Physics	3 Credits
PHYS 1140	Mathematical Physics	3 Credits
PHYS 1221	Classical Mechanics	3 Credits
PHYS 1321	Electromagnetic Theory	3 Credits
PHYS 1510	Thermodynamics and Statistical Mechanics	3 Credits
PHYS 1621	Quantum Mechanics	3 Credits
PHYS 1810	Intermediate Experimental Physics	3 Credits
MATH 1412, 1413	Calculus I, Calculus II	8 Credits
MATH 1510	Multivariable Calculus	3 Credits
MATH 2105	Linear Algebra	3 Credits
MATH 2601	Differential Equations	3 Credits
Additional Requirement:	1 semester of Physics Colloquium	1 Credit
Plus two (2) additional courses from the following electives:		
PHYS 1222	Classical Mechanics-II	3 Credits
PHYS 1322	Electromagnetic Theory-II	3 Credits
PHYS 1340	Computational Methods in Science and Research	3 Credits
PHYS 1401	Introduction to Solid State Physics	3 Credits
COMP 1300	Introduction to Computer Science	4 Credits

Exit Requirement: Exit Exam in Physics

Physics Minor — Total Credits: 19

Required Courses		16 Credits
PHYS 1041C, 1042C	General Physics, Lecture & Lab	10 Credits
PHYS 1120	Introduction to Modern Physics	3 Credits
PHYS 1510	Thermodynamics and Statistical Mechanics	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 1810	Intermediate Experimental Physics	3 Credits