Physics

Major

A major in Physics consists of a minimum of 28 semester hours in classroom and laboratory physics courses, along with a minimum of 16 semester hours of Mathematics courses as tool courses for the major.

Required Courses

Item #	Title	Credits
MA 213	Calculus I	4.0
MA 223	Calculus II	4.0
MA 233	Calculus III	4.0
MA 332	Introduction to Differential Equations	4.0
PY 201	College Physics I	4.0
PY 202	College Physics II	4.0
PY 321	Analytic Mechanics: Statics	4.0
	Sub-Total Credits	28

16 additional hours of course work in 300-level courses

Item #	Title	Credits
	Choose Three: PY 301, PY 302, PY 303 or PY 365	12.0
PY 301	Circuits	4.0
PY 302	Electricity and Magnetism	4.0
PY 303	Light	4.0
PY 365	Quantum Theory & Spectroscopy	4.0
	Sub-Total Credits	16
	Choose one: PY 304, PY 321, PY 322, or PY 323	4.0
PY 304	Materials Science for Engineers	4.0
PY 321	Analytic Mechanics: Statics	4.0
PY 322	Analytic Mechanics: Dynamics	4.0
PY 323	Thermodynamics	4.0
	Sub-Total Credits	16
	Sub-Total Credits	16

Students who do not place into calculus will need to take additional hours in mathematics. Students interested in further study in physics should take additional courses in physics, chemistry, math, and computer science. It is strongly recommended that physics majors have at least one internship or research experience as PY 465/466 in addition to the above.

Total Credits 44