

Suggested Sequence of Courses for Physics with Engineering

Freshman Year (34 hours)

Fall Semester

PHYS 121	Intro. to Engr. I	1 hour
MATH 133	Intro. to Functions	4
CHEM 111	General Chemistry	4
COM 101	Speech Fund	3
IC 101	Intro. to College	½
Gen. Ed. Program course*		4
		16 ½ hours

Spring Semester

PHYS 122	Intro. to Engr. II	1 hour
MATH 213	Calculus I	5
CHEM 112	General Chemistry	4
ENG 121	Principles of Writing	4
IC 102	Library Res. Meth.	½
Gen. Ed. Program course*		3
		17 ½ hours

Sophomore Year (34 hours)

Fall Semester

PHYS 201	College Physics	5 hours
MATH 223	Calculus II	5
CSC 160	Intro. to Comp Sci I	4
Gen. Ed. Program course*		3
		17 hours

Spring Semester

PHYS 202	College Physics	5 hours
MATH 233	Calculus III	5
CSC 170	Intro. to Comp Sci II	4
Gen. Ed. Program course*		3
		17 hours

Junior Year (32 hours)

Fall Semester

PHYS 321	Mechanics: Statics	3 hours
PHYS 301	Electricity and Mag.	
or		4
PHYS 303	Light	
Gen. Ed. Program course*		3
Gen. Ed. Program course*		3
Elective**		3
		16 hours

Spring Semester

PHYS 302	Electricity and Mag.	
or		4 hours
PHYS 306	Atomic Physics	
PHYS 322	Mechanics: Dynamics	
or		3
PHYS 308	Thermodynamics	
MATH 332	Intro. to Diff Eq	3
Gen. Ed. Program course*		3
Gen. Ed. Program course*		3
		16 hours

*General Education Program courses:

Students in the dual degree program may omit one of the courses from group B and one from group C.

A. Fine Arts, 1 course	3 hours
B. Humanities, 2 courses	6 hours
Social Science-, 2 courses	6 hours
Modern Language-, 2 courses	6-8 hours
C. Religious Issues..., 1 course	3 hours
Civic Issues..., 1 course	3 hours
Global Issues..., 1 course	3 hours

** Electives include PHYS 401, PHYS 402, PHYS 405, MATH 362, MATH 323, and other upper level physics and math courses. These hours may be used to fulfill the general requirements of the engineering institution, such as Washington University's specialization requirement or the University of Illinois' foreign language requirement.

Consult with your advisor to find the best fit with the engineering institution's general education requirements.