

Engineering Physics

<p>Courses required for the first year: Fall – Engr 190, Math 160 or Math 140, according to placement Spring - Phys 211, Math 160 if not taken in fall</p>
<p>Courses recommended for the first year: J-term - Phys 200 Spring - Math 220 (2 credits)</p>
<p>Contact: Dr. Joshua M. Dyer, (joshuadyer@augustana.edu)</p>

The Major in Engineering Physics

(A minor in Engineering Physics is not offered. Students may not also major in Physics.)

Required Courses

Course Number	Course Name	Learning Perspective/ Suffix	Prerequisites	Usually offered: F, J, SP, SU*	Credits
Engr 190	Intro to Design			F	4
Phys 200	Modeling and Simulation		Math 140	F/J	4
Phys 211	Foundational Physics I	PN	Math 160 (or co-requisite)	SP	4
Phys 212	Foundational Physics II	PN	Phys 211 & Math 260 (co-requisite)	F	4
Phys 213	Foundational Physics III		Phys 211 & Math 260	SP	4
Phys 366	Advanced Numerical Techniques		Phys 213 and Phys 200	F	2
Phys 368 or Phys 367 and Phys 421 (SI)	Advanced Experimental Design (SI)		Phys 366	SP	2
300-400 level PHYS, ENGR, or CHEM courses	based on advising (excluding ENGR-315/315A)				10

Required Supporting Courses

Course Number	Course Name	Learning Perspective/ Suffix	Prerequisites	Usually offered: F, J, SP, SU*	Credits
Math 160	Calculus			F/SP	4
Math 220	Integration Methods		Math 160	F/SP	4
Math 260	Multivariable Calc		Math 160	F	4

Additional Recommended Courses

Course Number	Course Name	Learning Perspective/ Suffix	Prerequisites	Usually offered: F, J, SP, SU*	Credits
Chem 131	General Chemistry I	PN		F/SP	4
Math 320	Differential Equations		Math 220	SP	4

Major Overview

- Students in Engineering Physics typically go into the engineering industry or onto graduate school in engineering.
A Study Abroad program of interest to engineers that travels to the Alps and carries PH and PA perspectives is offered in the spring term of odd years.
- We recommend meeting with the engineering advisor ASAP to map out a course plan.

*Fall, J term, Spring, Summer; see [Academic Calendar](#) for specific dates

Updated November 2023