

Physics Minor For Engineering

The physics minor requires additional coursework to the engineering curriculum. A minor in physics would be an excellent complement to an engineering degree for those that wish to attend graduate school in a range of engineering disciplines. University Physics III is required along with additional technical elective courses. The minimum requirement for a minor in physics is 22 credit hours selected as follows:

REQUIRED COURSES	CREDIT HOURS
PHYS 240-250. University Physics I-II	6
PHYS 140L-150L. General Physics Laboratory I-II	2
PHYS 260. University Physics III	4
TAKE 10 CREDITS FROM THE COURSES LISTED BELOW	CREDIT HOURS
Engineering Mechanics Career Interest	
PHYS/MATH 265. Introduction to Fluid Mechanics	3
PHYS 340: Mechanics	3
PHYS 342: Mechanics II	3
PHYS/MATH 365: Computational Fluid Mechanics	3
PHYS/MATH 366E: Computational Solid Mechanics	3
PHYS 380. Thermodynamics and Statistical Mechanics	3
Applied Electromagnetics Career Interest	
PHYS 350. Electricity and Magnetism	3
PHYS 420. Modern Optics	3
PHYS 446. Electricity and Magnetism II	3
PHYS/CHEM 455 Lasers and Their Applications to Physical Sciences	3
Other General Engineering Approved Electives	
PHYS 270: Modern Physics	4
PHYS/CHEM/MATS 275: Intro to Materials Science	3
PHYS 335: Modern Physics II	4
PHYS/MATS 337: Solid State Physics	3
PHYS 338: Nuclear Physics	3
PHYS 341: Nonlinear Dynamics and Chaos	3
PHYS 342: Mechanics II	3
PHYS 347: Advanced Physics Laboratory	3
PHYS 360: Analog Electronics	4
PHYS 371: Introductory Digital Electronics	2
PHYS 372: Microcontrollers and their Applications	2
PHYS 373: Interfacing Microcomputers	2
PHYS/MATS 381: Materials Characterization	3
PHYS 460: Quantum Mechanics	3

NOTE: Some courses may have pre- or co- requisites that are not included in the credit total. It is the student's responsibility to fulfill any pre- or co- requisites required.

These courses, collectively fulfill the 9 credit approved technical elective package for the Bachelor of Science in the School of Engineering.