

College of SCIENCE  
Department of PHYSICS  
Minor in PHYSICS  
For students graduating in calendar year 2021

The Minor in Physics requires the completion of 21 credit hours.

**I. Required courses (12 credit hours)**

- PHYS 2305 Foundations of Physics I 4   
PHYS 2306 Foundations of Physics I 4   
PHYS 3324 Modern Physics 4

**Select 9 credit hours from the list below:**

- PHYS 2504 Mathematical Methods in Physics 3   
PHYS 3355 Intermediate Mechanics 3   
PHYS 3356 Intermediate Mechanics 3   
PHYS 3405 Intermediate Electricity and Magnetism 3   
PHYS 3406 Intermediate Electricity and Magnetism 3   
PHYS 3655 Introduction to Astrophysics 3   
PHYS 3656 Introduction to Astrophysics 3   
PHYS 3704 Thermal Physics 3   
PHYS 4254 Quantum Information Technologies 3   
PHYS 4504 Introduction to Nuclear and Particle Physics 3   
PHYS 4554 Introduction to Solid State Physics 3   
PHYS 4564 Polymer Physics 3   
PHYS 4574 Nanotechnology 3   
PHYS 4614 Optics 3   
PHYS 4654 Modern Cosmology 3   
PHYS 4674 Introduction to General Relativity 3   
PHYS 4714 Introduction to Biophysics 3   
PHYS 4755 Intro to Computational Physics 3   
PHYS 4774 Intro to Physics of Galaxies 3

Total 21 credit hours.

**II. Prerequisites and/or Corequisites**

For the courses listed above, prerequisites and/or corequisites may apply. Be sure to consult the University Course Catalog or check with your advisor.

**III. Minimum GPA**

For the courses attempted by the student for this minor, the student's GPA must be 2.0 or higher.

**IV. Accepted Substitutions**

- PHYS 3355: AOE 4134 (Astromechanics), or ESM 3124 (Dynamics II Analytical and 3-D Motion).  
PHYS 3356: ESM 3134 (Dynamics III Vibration and Control), or ESM 4114 (Nonlinear Dynamics and Chaos).  
PHYS 3405: ECE 3105 (Electromagnetic Fields).  
PHYS 3406: ECE 3106 (Electromagnetic Fields).