

**College of SCIENCE  
Department of PHYSICS  
Minor in PHYSICS**

**For students entering under UG Catalog 2023-2024**

All courses below have prerequisites or corequisites. These are listed below.

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

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

PHYS 2305 Foundations of Physics	4 <input type="checkbox"/>
PHYS 2306 Foundations of Physics	4 <input type="checkbox"/>
PHYS 3324 Modern Physics	4 <input type="checkbox"/>

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

PHYS 2504 Mathematical Methods in Physics	3 <input type="checkbox"/>
PHYS 3355 Intermediate Mechanics	3 <input type="checkbox"/>
PHYS 3356 Intermediate Mechanics	3 <input type="checkbox"/>
PHYS 3405 Intermediate Electricity and Magnetism	3 <input type="checkbox"/>
PHYS 3406 Intermediate Electricity and Magnetism	3 <input type="checkbox"/>
PHYS 3655 Introduction to Astrophysics	3 <input type="checkbox"/>
PHYS 3656 Introduction to Astrophysics	3 <input type="checkbox"/>
PHYS 3704 Thermal Physics	3 <input type="checkbox"/>
PHYS 4254 Quantum Information Technologies	3 <input type="checkbox"/>
PHYS 4554 Introduction to Solid State Physics	3 <input type="checkbox"/>
PHYS 4564 Polymer Physics	3 <input type="checkbox"/>
PHYS 4574 Nanotechnology	3 <input type="checkbox"/>
PHYS 4614 Optics	3 <input type="checkbox"/>
PHYS 4654 Modern Cosmology	3 <input type="checkbox"/>
PHYS 4664 Astroparticle Physics	3 <input type="checkbox"/>
PHYS 4674 Introduction to General Relativity	3 <input type="checkbox"/>
PHYS 4714 Introduction to Biophysics	3 <input type="checkbox"/>
PHYS 4755 Intro to Computational Physics	3 <input type="checkbox"/>
PHYS 4774 Intro to Physics of Galaxies	3 <input type="checkbox"/>

Total 21 credit hours.

**II. Minimum GPA**

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

**III. Accepted Substitutions**

- PHYS 3355: AOE 3154 (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).

**IV. Prerequisites and/or Corequisites**

For the courses listed above, prerequisites and/or corequisites apply. Please check with your advisor or consult the Undergraduate Course Catalog.