Physics Minor

Students completing this minor must complete a minimum of 24 credit hours in physics.

Complete all of the following:

_____ PHY 230 – Principles of Physics I (5 cr.) (Prereq: MTH 201, Coreq: MTH 202 is recommended)

_____ PHY 231 – Principles of Physics II (5 cr.) (Prereqs: PHY 230 and MTH 202)

_____ PHY 302 – Introduction to Modern Physics (4 cr.) (Prereq: PHY 231)

Complete 10 credits from the following:

_____ PHY 309 – Experimental Methods in Physics (4 cr.) (Prereqs: PHY 302 and SWS course)

_____ PHY 311 – Advanced Laboratory II (2 cr.) (Prereqs: PHY 309 and SWS course)

_____ PHY 320 – Optics (3 cr.) (Prereq: PHY 231)

_____ PHY 330 – Intermediate Mechanics (4 cr.)
(Prereqs: PHY 230, or permission of instructor, and MTH 302 or MTH 304)

_____ PHY 340 – Electromagnetic Fields (4 cr.) (Prereqs: PHY 231 and MTH 302 or MTH 304)

_____ PHY 350 – Intermediate Modern Physics (4 cr.)
(Prereqs: PHY 302 and MTH 302 or MTH 304, MTH 300 recommended)

_____ PHY 360 – Statistical Thermodynamics (4 cr.) (Prereq: PHY 231)

_____ PHY 370 – Solid State Physics (3 cr.) (Prereqs: PHY 302 and MTH 302 or MTH 304)

*PHY 105 is strongly encouraged for students seeking teacher certification for secondary teaching with Physics minor. Therefore, PHY 105 may be counted as part of the additional 10 hours in physics courses for those students, but this option is not open to students seeking a minor in physics in programs other than secondary education.

Notes:

1. Most physics courses have math pre-requisites.
2. All students seeking teacher certification are required to assist for at least 30 clock hours in the department's tutoring program or at least 30 clock hours as a laboratory assistant setting up equipment and demonstrations as well as helping students in a laboratory setting. Required reading and experience in laboratory safety will be part of this laboratory setting.
3. Students seeking certification to teach at the secondary level must have a minimum GPA of 2.7