

PHYSICS (PHYS)

PHYS 1111K. Intro Physics I. (4 Credits)

Prerequisite: Grade of C or better in MATH 1113 or MATH 1501 or Math 1502 Credit Hours: (3-3-4). An introductory course which will include material from mechanics, thermodynamics, and waves. Elementary algebra and trigonometry will be used.

PHYS 1112K. Intro Physics II. (4 Credits)

Prerequisite: Grade of C or better in PHYS 1111K. Credit Hours: (3-3-4). An introductory course which will include material from electromagnetism, optics, and modern physics. Elementary algebra and trigonometry will be used.

PHYS 2211K. Prin Physics I. (4 Credits)

Prerequisite: Grade of C or better in MATH 1501 or MATH 1502. eCore Pre-requisite: MATH 1501. Credit Hours: (3-3-4). or eCore (3-1-4). An introductory course which will include material from mechanics, thermodynamics, and waves. Elementary differential calculus will be used.

PHYS 2212K. Principles of Physics II. (4 Credits)

Prerequisite: Grade of C or better in PHYS 2211K. Completion of or concurrent enrollment in MATH 1502. Credit Hours: (3-3-4). An introductory course which will include material from electromagnetism, optics, and modern physics. Elementary differential and integral calculus will be used.

PHYS 2295. Special Research Topics. (1 Credit)

Prerequisite: Permission of Instructor. Credit Hours: (0-3-1). Faculty guided student research utilizing laboratory, library, and/or computer resources.

PHYS 2500. Steril Sci & Emerging Tech. (3 Credits)

This course provides foundational knowledge and understanding on how and why plasma sterilization and plasma processing evolved. Content includes an overview of sterilization methods and limitations and plasma sterilization/processing history, advantages, and applications.

PHYS 2510. Intro to Plasma Sci & Eng. (3 Credits)

This courses teaches students the technical foundation of plasma sterilization and processing with a focus on the equipment involved and the processes for creating a suitable plasma environment.

PHYS 2520. Comp, Qual & Appl Strat. (3 Credits)

This course will prepare students to work in highly regulated environments and apply their skills strategically by examining requirements, standards, and various regulatory frameworks.

PHYS 2530. Mech, Operation & Lab Practice. (3 Credits)

This course is a hands-on lecture and lab course designed for students to gain experience and insight into daily operation of plasma systems for various industries.