

Course SLOs aligned with Program SLOs

San Mateo CCCD

CAN Institutional SLOs

Select, evaluate, and use information to investigate a point of view, support a conclusion, or engage in problem solving.

No Course Outcomes related to this ISLO.

Produce, combine, or synthesize ideas in creative ways within or across disciplines.

No Course Outcomes related to this ISLO.

Use language to effectively convey an idea or a set of facts, including the accurate use of source material and evidence according to institutional and discipline standards.

No Course Outcomes related to this ISLO.

Understand and interpret various points of view that emerge from a diverse world of peoples and cultures.

No Course Outcomes related to this ISLO.

Represent complex data in various mathematical forms (e.g., equations, graphs, diagrams, tables, and words) and analyze these data to draw appropriate conclusions.

CAN Dept - Physics

CAN PHYS 210 - General Physics I

Course Outcomes:

- * Energy - Analyze the motion of a body (rotational or linear) in terms of momentum, kinetic energy, and potential energy. (Created By CAN Dept - Physics)
- * Newton's Laws - Perform an analysis of a physical system in terms of forces, velocities displacements and accelerations and time using Newton's laws. (Created By CAN Dept - Physics)
- * Thermodynamics - Perform an analysis of isobaric, isochoric, isothermal and adiabatic processes in their relation to work, heat transfer, and changes in internal energy. (Created By CAN Dept - Physics)

CAN PHYS 220 - General Physics II

Course Outcomes:

- * DC Circuits - Analyze and explain the behavior of simple DC circuits with resistors, capacitors, and batteries. (Created By CAN Dept - Physics)
- * Modern Physics - Describe the photo-electric effect, the Compton effect, quantization of energy and the Bohr model of the atom. (Created By CAN Dept - Physics)
- * Optics - Analyze the reflection and refraction of light in terms of geometrical optics in different media. (Created By CAN Dept - Physics)

CAN PHYS 250 - Physics with Calculus I

Course Outcomes:

- * Energy - Analyze the motion of a body (rotational or linear) in terms of momentum, kinetic energy, and potential energy. (Created By CAN Dept - Physics)
- * Laboratory Experience - Setup, perform, analyze, and document an experiment. (Created By CAN Dept - Physics)
- * Newton's Laws - Perform an analysis of a physical system in terms of forces, velocities displacements and accelerations and time using Newton's laws. (Created By CAN Dept - Physics)

CAN PHYS 260 - Physics with Calculus II

Course Outcomes:

- * ACDC - Analyze and explain the behavior of simple AC & DC circuits with resistors, capacitors, and inductors (Created By CAN Dept - Physics)
- * EForce - Analyze electric forces and fields created by a system of charged particles (Created By CAN Dept - Physics)
- * Induction - Solve problems involving induced electric and magnetic fields (Created By CAN Dept - Physics)

CAN PHYS 270 - Physics with Calculus III

Course Outcomes:

- * Modern Physics - Describe the photo-electric effect, the Compton effect, quantization of energy and the Bohr model of the atom. (Created By CAN Dept - Physics)

- * Optics - Analyze the reflection and refraction of light in terms of geometrical optics in different media. (Created By CAN Dept - Physics)
- * Special Relativity - Explain the principle assumptions of Special Relativity and able to perform calculations involving relativistic kinematics. (Created By CAN Dept - Physics)
- * Thermodynamics - Perform an analysis of isobaric, isochoric, isothermal and adiabatic processes in their relation to work, heat transfer, and changes in internal energy. (Created By CAN Dept - Physics)