

Engineering Physics

The Bachelor of Science degree in Engineering Physics (EPHYS) is offered through the cooperation of University of the Pacific's School of Engineering and Computer Science and the Department of Physics in the College of the Pacific. Engineering physics is a field that provides broad training in physics, mathematics, and engineering design. The practitioner of engineering physics is often involved in the development of new devices and products using sophisticated physical concepts.

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The engineering physics curriculum educates students to work in areas where technology is changing rapidly and where the boundaries of several traditional engineering disciplines overlap, such as sensors, robotics, materials, energy, and semiconductor materials, particularly in nano-scale electronic devices. The curriculum develops sufficient depth in both engineering and science to produce graduates who are able to relate basic knowledge to practical problems in engineering. The physics engineer is a person with the training of an applied physicist and can function as either an electrical engineer or mechanical engineer with a deeper understanding of physics applied to the two engineering disciplines.

COOPERATIVE EDUCATION PROGRAM (CO-OP)

CO-OP coordinators work with students to arrange 7 month full-time, paid jobs with engineering employers. (CO-OP is optional for non-U.S. citizens)

ENGINEERING PHYSICS PROGRAM OBJECTIVES

Through their careers in engineering or related profession, Pacific graduates are expected to demonstrate the following within a few years of earning their bachelor's degree in Engineering Physics:

- + Competency in an engineering or science profession via promotion to positions of increasing responsibility, publications, and/or conference presentations.
- + Adaptability to new developments in science and technology by successfully completing or pursuing graduate education in engineering or related fields, participating in professional development and/or industrial training courses

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS - PROGRAM CURRICULUM

GENERAL EDUCATION

CORE 001 [4] CORE SEMINAR 1

CORE 002 [4] CORE SEMINAR 2

GEN. ED. [3-4] ARTISTIC PROCESS & CREATION*

GEN. ED. [3-4] CIVIC & GLOBAL RESPONSIBILITY*

GEN. ED. [3-4] LANGUAGE & NARRATIVES*

GEN. ED. [3-4] SOCIAL INQUIRY*

ENGR 030 [3] ENGINEERING AND COMPUTING ETHICS IN SOCIETY

*NO MORE THAN ONE COURSE IN EACH AREA CAN BE TAKEN TO SATISFY