

PRE-ENGINEERING

College of Natural and Behavioral Sciences

Program Description

CSU Dominguez Hills offers a Pre-Engineering Program where students complete the first two years of their degree at CSU Dominguez Hills and may then finish the last two years of their major at a partnering CSU campus.

Features

The Program includes the basic sciences, mathematics, and engineering course work required in the first two years of work toward an Engineering Degree. Students have the benefit of close instructor contact, small class size, and easy access to a complete range of modern laboratory and computing facilities.

For further information, contact the Physics Department Office, NSM B-202, (310) 243-3591

Academic Advising

Individualized academic advising is an important feature of the Program. Students should contact the Office of the Dean of College Natural and Behavioral Sciences in order to be assigned an advisor to assist them in planning their programs. Since much of the course work must be completed in a specific sequence, it is important that students in the Program meet with their designated advisor each and every semester.

Preparation

High school students planning to enter engineering are advised to pursue a strong program in pre-engineering subjects. At the minimum, these should include the following: Four years of mathematics, including advanced algebra, geometry and trigonometry; one year of biology; one year of chemistry; and one year of physics. Analytic geometry, and calculus also are desirable.

Community college transfers may complete a portion of the Program at a community college. However, they should consult an engineering advisor to assure that their program is appropriate for the engineering program they plan to enter.

Program Requirements

Specific course requirements may vary somewhat, depending on the engineering major pursued. For this reason, it is important that students in the Program choose their area of engineering as soon as possible. However, most engineering programs require at least the following minimum core:

Code	Title	Hours
CHE 110	General Chemistry I	5
EGR 205	Mechanics ¹	3
MAT 191	Calculus I	5
MAT 193	Calculus II	5
MAT 211	Calculus III	5
MAT 311	Differential Equations	3
PHY 130	General Physics I	5

PHY 132	General Physics II	5
Total Hours		36

¹ Course is infrequently offered.

Courses

EGR 205. Mechanics. (3 Units)

Prerequisite: PHY 130. Fundamental principles of statics, kinematics and dynamics, with application to idealized structures and physical systems. Offered Infrequent