

Inter-Disciplinary Senior Projects (ENGR 459, 460, 461 | 462, 463, 464)

As part of a team in another department, students can work with other non-IME students to solve an engineering design problem. These projects have several aspects that require special considerations.

Inter-disciplinary Senior Project (ENGR 459, 460, 461)

ENGR 459. Interdisciplinary Senior Design Project I. 2 units

First of three courses taken sequentially in a team based interdisciplinary senior design project. Development of sponsor's needs and generation of design solutions. Project management, cost analysis, intellectual property, test plans, impact analysis on society, and ethical considerations. Communication of results to project sponsor.

ENGR 460. Interdisciplinary Senior Design Project II. 2 units

Continuation of [ENGR 459](#) and senior project. Activities focus on detail design, analysis and material procurement.

ENGR 461. Interdisciplinary Senior Design Project III. 2 units

Continuation of [ENGR 460](#) and completion of senior project. Design verified through prototyping and testing.

Inter-disciplinary Entrepreneurial Senior Project (ENGR 462, 463, 464)

ENGR 462. Senior Project. 4 units

Selection and completion of project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Project results presented in a formal report. Minimum commitment of 150 hours.

ENGR 463. Interdisciplinary Entrepreneurial Senior Design Project I. 2 units

First of three courses taken sequentially in a team based interdisciplinary senior design project with engineering and business students. Entrepreneurial process through design of a product or service, using customer development and agile engineering.

ENGR 464. Interdisciplinary Entrepreneurial Senior Design Project II. 2 units

Continuation of [ENGR 463](#) and a team based interdisciplinary senior design project with engineering and business students.

Extra units: These projects are offered over three quarters and generate more than the 5 units necessary for senior project in the IME department. In this case, IME students should enroll in the course, as well as the other students on the team. Five of the units will substitute for IME 481 and IME 482 (a substitution form is necessary) and the excess unit will be counted as a technical elective unit.

Advisor: The IME students on the inter-disciplinary senior project team must have a technical advisor in the IME department. This will insure that IME students contribute at an appropriate level to the project team.

Report: The Senior Project report requirements will be replaced by the requirements of the inter-disciplinary team.