

CE4388 - Senior Design Project I

[CE 4388](#) Senior Design Project I (3 semester hours) First of two sequential semesters devoted to a team project that engages students in the full engineering design process. The goal of senior design projects is to prepare the student to run/participate in engineering projects related to an appropriate industry. Thus, all project teams are to follow standard industrial practices and methods. Teams must carry the engineering project to completion, examining real world and multiple design constraints, following applicable industrial and business standards. Such constraints may include but are not limited to: economic, environmental, industrial standards, team time/resource management and cross-disciplinary/departmental result integration. Students are required to work in teams that include collaborative design interaction. Additionally, cross-disciplinary teams are encouraged but not required. In Senior Design I, project proposals will be written, reviewed and approved. Initial designs will be completed and corresponding constraints will be determined. All students will participate in a public oral and poster presentation following departmental approved guidelines at a departmental approved time and location. Teams will also submit a written end of semester progress report and documented team communication (complete sets of weekly reports and/or log books) following guidelines approved by the faculty. Students must have completed [ECS 3390](#) and one of the following prerequisite sequences: (([CE 3311](#) or [EE 3311](#)), and ([CE 3320](#) or [EE 3320](#)), and ([CE 3345](#) or [CS 3345](#) or [SE 3345](#) or [TE 3345](#)), and ([CE 3354](#) or [CS 3354](#) or [SE 3354](#))), or [(([ENGR 3300](#) and ([CE 3302](#) or [EE 3302](#) or [TE 3302](#)), and ([CE 3311](#) or [EE 3311](#)), and ([CE 3320](#) or [EE 3320](#))), or (([ENGR 3300](#) and ([CE 3302](#) or [EE 3302](#) or [TE 3302](#)), and ([CE 3345](#) or [CS 3345](#) or [SE 3345](#) or [TE 3345](#))); prerequisite or corequisite: [EE 3350](#) or [TE 3350](#).] (Same as [EE 4388](#) and [TE 4388](#)) (3-0) S