

Summer 2014 Project for CECM:

The students will review the lab experiments for AM317 (for description of AM317, see below). Based on their initial review, recommendations for changes will be proposed. In addition, the students will design one new lab experiment for the AM317 course. If possible, the new lab experiment will be built by the students (except the needed instrumentation).

At the end of the summer 2014 term, the students will:

1. Document the process for changes in existing lab assignments and the process of implementation the changes
2. Document the process, design requirements and lab manual portion of the new lab experiment.

Requirements:

Students in junior standing (need to have taken Statics and passed with a grade of C- or better)

Up to 6 students

Time Commitment:

There will be two meetings per week, Mondays and Thursdays, about an hour plus each where students will present their findings.

Students will work in groups of 2 and will have the existing lab assignments reviewed and commented upon. The new lab experiment will be worked on by the entire group.

Course Description

AM 317. Mechanics Lab (1)

Prerequisites: CE 340. Co-requisite: AM 316. Experimental analysis of the responses of various configurations of deformable solids to static and dynamic forces. Design of mechanics experiments. One three-hour lab per week. (Design units: 0.5)

For further information, contact Dr. Nazaret dermendjian at nazaret.dermendjian@csun.edu .