

2007-2009 Cal Poly Catalog
Liberal Arts and Engineering Studies,
an Interdisciplinary Program

LAES–LIBERAL ARTS and ENGINEERING STUDIES

NEW COURSES Approved after printing of the 2007-09 Catalog

First posted 12/13/07; updated 5/13/08

LAES 301 Project-Based Learning in Liberal Arts and Engineering Studies (4)

Researching, writing, revising and presenting a technical proposal suitable for submission to a national design competition seeking innovative solutions to complex technological/social problems. Examination of how to define LAES as a new field of study; analysis of the creative process and team building in theory and in application. For LAES majors only.

➡ ~~4 lectures, 2 activities.~~ **4 lectures, 2 activities.** Prerequisite: MATH 241; PHYS 133, PHYS 132; GE Area A; completion of 4 engineering fundamentals courses. [Changed effective Fall 2008.](#)

LAES 411 Global Synthesis in Liberal Arts and Engineering Studies (4)

Onsite work with a global technical development and/or design team to develop a project to be completed/expanded upon in LAES 461. Through guided online discussion with the instructor and fellow LAES students, work through intercultural collaboration and design issues, and present works-in-progress. **4 lectures, 1 seminar, 3 activities.** Prerequisite: LAES 301, senior standing. [Changed effective Winter 2009.](#)

LAES 461 Senior Project in Liberal Arts and Engineering Studies (4)

Under faculty supervision, the selection and completion of a senior project, demonstrating an interdisciplinary focus in LAES. With one-on-one format with the instructor, individual or small group work through many iterations of the senior project, with occasional showing of works in small student groups. Prerequisite: LAES 411, senior standing.

➡ **LAES 462 Capstone Senior Seminar in Liberal Arts and Engineering Studies (4)**

The final refinement and completion of LAES senior projects and other projects. In a development workshop format, presentation of final versions of works-in-progress to combined faculty and professional review committees throughout the quarter. ~~2 seminars, 2 activities.~~ **Supervision.** Prerequisite: LAES 461. [Changed effective Fall 2008.](#)