DEV ENG 200 Design, Evaluate, and Scale Development Technologies 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This required course for the Designated Emphasis in Development Engineering will include projects and case studies, many related to projects at UC Berkeley, such as those associated with the Development Impact Labs (DIL). Student teams will work with preliminary data to define the problem. They will then collect and analyze interview and survey data from potential users and begin to design a solution. Students will explore how to use novel monitoring technologies and “big data” for product improvement and evaluation. The student teams will use the case studies (with improvements based on user feedback and data analysis) to develop a plan for scaling and evaluation with a rigorous controlled trial.

DEV ENG 210 Development Engineering Research and Practice Seminar 2 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Development Engineering represents a new interdisciplinary field that integrates engineering, economics, business, natural resource development and social sciences to develop, implement, and evaluate new technological interventions that address the needs of people living in poverty in developing regions and low-income areas of the United States. This seminar, offered each spring term, will focus on work-in-progress presentations by the students, as well as faculty and guest lecturers. This seminar is a required course for the Designated Emphasis in Development Engineering.

Objectives Outcomes
Course Objectives: The objective of the seminar is to prepare students for research and practice in development engineering. Students will give presentations on their research and receive feedback from faculty and peer students in multiple disciplines. The seminar will also provide a community of practice in the new field of development engineering.

Rules & Requirements
Prerequisites: Graduate standing
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Development Engineering/Graduate
Grading: Letter grade.
Instructors: Agogino, Brown

Also listed as: MEC ENG C200

Design, Evaluate, and Scale Development Technologies: Read Less [-]
DEV ENG 215 Global Poverty: Challenges and Hopes in the New Millennium 4 Units
Terms offered: Fall 2018
This class seeks to provide a rigorous understanding of 20th century development and thus 21st century poverty alleviation. Students will take a look at popular ideas of poverty alleviation, the institutional framework of poverty ideas and practices, and the social and political mobilizations that seek to transform the structures of poverty.

Global Poverty: Challenges and Hopes in the New Millennium: Read More [+]

Objectives Outcomes

Course Objectives: The graduate students will learn the social-political context constrains and opens opportunities for successful Development Engineering by building on the lectures and readings of the undergraduate course GPP 115, and adding on to it additional readings and a graduate-level discussion seminar.

Rules & Requirements

Prerequisites: Graduate level standing

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer:
6 weeks - 8 hours of lecture and 2.5 hours of discussion per week
8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Development Engineering/Graduate

Grading: Letter grade.

Instructor: DeLong

Global Poverty: Challenges and Hopes in the New Millennium: Read Less [-]

DEV ENG 290 Advanced Special Topics in Development Engineering 1 - 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2016
This series covers current topics of research interest in development engineering. The course content may vary semester to semester. Check with the department for current term topics. All topics will address the development engineering goals of developing technology interventions designed to improve human and economic development within complex, low resource settings.

Advanced Special Topics in Development Engineering: Read More [+]

Objectives Outcomes

Course Objectives: To prepare students to understand critical topics associate with developing economics, development technologies and social impact.

Student Learning Outcomes: Varies with the topic. However, all special topics courses will teach students skills in integrating multiple disciplines of social sciences, economics, policy and technology into better understanding of development challenges and potential solutions.

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring:
7 weeks - 2.5-6 hours of lecture per week
15 weeks - 1-3 hours of lecture per week

Additional Details

Subject/Course Level: Development Engineering/Graduate

Grading: Letter grade.

Instructor: DeLong

Advanced Special Topics in Development Engineering: Read Less [-]