Peace Engineering Emphasis: Course Suggestions

2022-2026 Catalog

This list of classes is a suggestion for you as you build your Emphasis. You will have to make sure you have the pre-requisites and in some cases you also might need to get permission from the faculty teaching the class.

ES 350: Gender, Race, Culture, Science & Technology. Examines the complex relationships between gender, race, culture, science, and technology via intersectional quantitative and qualitative inquiry, centering the perspectives of historically marginalized people in the U.S. Explores, evaluates, and develops proposals to create more diverse, equitable, ethical, humane science/technology.

ES 351: Gender, Race, Class, Nation in Global Engineering, Technology & International Development. Cross-cultural exploration of the intersections of gender, race, class, nation in the global engineering workforce, small- and large-scale technological systems, and international development programs; special attention to 21st century challenges and efforts to create more socially responsible engineering and technology.

POLS 452: Technology and International Development. Examines potential for advanced technologies to support international development from political and social science perspective. Reviews historical efforts toward and socio-economic contexts of global development. Analyzes current applications of advanced technology for sustainable development, democracy-building, education, healthcare, and policy reform.

POLS 225: Introduction to International Relations. Introduction to the basic concepts, issues, and theories surrounding the study of international politics. Changes in the nature of conflict, power, and national interests in the post-Cold War era. Role of states, non-governmental actors, and international organizations in the global arena.

POLS 328: Politics of Developing Areas. A detailed survey of the domestic politics of developing countries from a comparative perspective. Assessment of theories of development with appropriate examples taken from particular areas and countries.

POLS 325: Global Political Issues. Concepts and theories in international relations and contemporary global issues. Application of principles of international relations to political issues and subjects which affect our lives.

POLS 426: International Organizations and Law. Analysis of contemporary international legal issues, such as arms control and nonproliferation, intellectual property rights and the World Trade Organization, and human rights and the United Nations.

SOC 309: The World System and Its Problems. Analysis of the historical background, structure, and dynamics of the world system; examines such issues as the origins of Third World poverty, colonialism, the changes in the world's dominant economic powers, the fall of communism, the growing economic competition between Europe, North America, and Asia; and possible strategies for the economic development of the Third World.

SOC 310: Self, Organizations, and Society. Analysis of the interactions relating to the development of self. Examination of the reciprocal interactions between biology, personal environment, and society.

SOC 343: Contemporary Societies of the Developing World. Investigation of societies in developing countries, from broad regional trends to community-specific case studies. Gender, race, education, health, aging, families, inequality, and resilience.

ANT 201: Cultural Anthropology. Cultural patterns, divergence and uniformity in language and communication, family organization, gender, and adaptation to environment. Economics and productivity, political organization, religion and ritual, ethnicity and race, illness and healing, globalization and culture change.

ANT 393: Action-oriented Ethnography. Development of knowledge and skills needed to conduct original action-oriented ethnographic research. Grounded in the reflexive 'turn' in anthropology and critical race, science, technology and society, queer and feminist studies, students will engage questions of authority, representation, critical consciousness and justice*.*

ANT 360: Human Cultural Adaptations. Social and cultural evolution from Paleolithic times to the present. Interactions of demographic, economic and ecological factors are emphasized. Main topics include human nature/culture, sex and gender, cooperation and conflict, the 'agricultural revolution', state formation, social inequality and globalization.

PSY 252: Social Psychology. How attitudes, beliefs, and behavior are affected by the social situation. Gender roles, prejudice, aggression, altruism, attitudes and persuasion, liking and loving, and group behavior. Use of social psychology to understand diversity issues, reduce racism and sexism and international conflict, improve relationships, and communicate persuasively*.*

PSY 304: Intergroup Dialogues. Weekly meetings of students from two distinct self-defined identity groups, with trained peer facilitators, in which readings, experiential activities, informed dialogue, and reflective writing are integrated as a means of encouraging self and group awareness and exploring ways to promote just community across difference.

PSY 352: Conflict Resolution: Violent and Nonviolent. Psychological, situational, political, and cultural determinants of violence and nonviolence in interpersonal, intergroup, and international conflict. Self-assessment of conflict resolution attitudes, competencies, and behaviors. Negotiation, mediation, and other approaches to conflict management. Educational and structural approaches to violence prevention

PSY 465: Cross-Cultural International Psychology. Psychological, cultural, ecological and behavioral influences on human development in different cultural settings. Focuses on from one to three different cultures outside the U.S. in any given quarter.

PSY 475 The Social Psychology of Prejudice. Examination of social psychological frameworks for understanding the origins and consequences of prejudice and ways to improve relationships between people who come from different social groups (e.g., race, ethnicity, class, age, sexual orientation, gender).

CRP 215: Planning for and with Multiple Publics. How the social/spatial relationships among racial/ethnic and gender groups are expressed in terms of human settlement patterns, civic involvement and everyday negotiations. Ways in which segregation and marginalization are expressed in western and non-western contexts.

CRP 428: International Planning and Development. Comparative assessment of planning for international development to improve the quality of life of people in cities and regions around the world. Critical analysis of theories and practices underlying programs and projects and their pertinence to the United States..

COMS 316: Intercultural Communication. Cultural aspects of communication within and among diverse groups. Particular focus on U.S. culture and history and the diversity of ethnic, subcultural, and co-cultural groups. Development of nuanced understanding of the role of culture and communication in human thought, behavior, and interaction.

COMS 319*: Critical Cultural Studies and Communication*. Analysis and integration of theories and methods of Cultural Studies as an interdisciplinary mode of critical qualitative inquiry. Emphasis on the role of communication in differential power relations, particularly on issues of identity, struggle, and representation in a diverse culture.

BUS 458*: Solving Big World Challenges.* Apply human-centered design practices to address a social or an environmental challenge, specific to a local community. Achieve revenue-generating social impact through innovative business models. Practice team competencies including problem-solving, interviewing, brainstorming, prototyping, and written, visual, and oral communication.

BUS 302*: International and Cross Cultural Management*. Dimensions of culture and its variations within and across nations. Impact of culture on managing in a global context. Development of managerial competencies requisite to working in and supervising multicultural groups in international corporations. Frameworks for analyzing cultural and contextual influences on organizational behavior, culture shock and readjustment, expatriation and repatriation, cultural change and innovation, intercultural conflict, and ethical dilemmas. Case studies, behavioral simulations, self-assessments and fieldwork.

JOUR 219: Multicultural Society and the Mass Media. The role of the mass media in a democratic multicultural society. Portrayal and stereotyping of ethnic minorities by different mass media forms throughout U.S. history. The growing impact of minorities in the United States. Achievement and goals of current American ethnic media, with special attention to Latinos/as and African-Americans.

JOUR 401: Global Communication. Global communications facilities and operations; world transmission of information; survey of world wire services and international print and electronic media. Analysis of press operations under varying government ideologies, including third world countries.

UNIV 391/491: Appropriate Technology for the World's People: Development. A broad overview of international development and appropriate design for sustainability. Besides traditional classroom work, students work in teams to address problems with technical solutions. Collaboration with mentors from the university, private sector, and nonprofits serves to provide diverse background and project mentorship

UNIV 392/492: Appropriate Technology for the World's People: Design*.* Addresses the needs of international impoverished communities with technological solutions, which are inexpensive, ecologically sustainable, and socially appropriate. Group study of target communities, and design and construction of an appropriate technology prototype.

WLC 310: Humanities in World Cultures. Interdisciplinary examination of the humanities in a selected culture. Special focus on the arts, literature, philosophy and language in that culture. The Class Schedule will list topic selected.

WLC 370: Language, Technology and Society. Focus on ways in which technology impacts language use. Characteristics of social media interactions (texting, Facebook) in different languages (e.g., Spanish, French, German, Chinese) are compared. Special attention given to linguistic diversity and the emergence of multilingual identities on digital platforms.

PHIL 321: Philosophy of Science. The rational foundations of inquiry and explanation in the physical, biological and social sciences. Justification of scientific claims, the difference between science and pseudoscience, the relationship between science and other fields of investigation.

PHIL 322: Philosophy of Technology. Analyses of the philosophical foundations and implications of technology. Technology and the human condition, technology and philosophical ethics, technology and political philosophy, technology and the metaphysics of human nature, and the relationship between science and technology.

PHIL 323: Ethics, Science and Technology. Ethical decision-making as applied to issues such as the use of robots, the treatment of animals, sustainability, scientific fraud, feminist analysis of science and technology, as well as questions about whether technology is just a value-neutral tool or, rather, embodies certain values.

PHIL 340: Environmental Ethics. Analyses of various positions on the moral status of nonhuman entities and problems such as the treatment of animals, wilderness preservation, population, pollution and global warming.

IME 319: Human Factors Engineering. Analysis of factors influencing the efficiency of human work. Data on the physical and mental capacities of persons, the physical environment, work organization, and the problem of aging. Design of machines, operations, human computer interface and work environment to match human capacities and limitations, including the handicapped.

IME 303: Project Organization and Management. Design and implementation of a major industrial/business systems project. Project planning considerations. Motivational and influence techniques used in project management. Scheduling techniques with risk assessment. Resource leveling and management under constraints. Reducing project duration. Monitoring progress with earned value analysis. Project audit and closure. Planning and implementation of a project. Application of project management software.

IME 535: Change Management for Engineering Leaders. Engineering change processes, configuration management, implementation in project management, cultural change, change models, and personal change. Processes used in reacting and managing changes. Learning through discussion and applications which might include conflict, emotion and differing opinions.

Relevant Economics Course. Explore options at https://catalog.calpoly.edu/coursesaz/econ/