



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Engineering Ethics and Professionalism

ENGR 7200

Credit Hours:

1.00 - 1.00

Course Levels:

Graduate

Course Components:

Lecture

Course Description:

To learn professionalism and ethical decision-making strategies; topics include codes of ethics, moral frameworks, engineering as social experimentation, assessment of safety and risk, employer and employee rights and responsibilities, confidentiality and conflict of interest, whistle-blowing, research integrity, consulting engineers, expert witnesses. Engineering ethics case studies in detail

Course Goals / Objectives:

- To learn professionalism, ethical decision-making strategies, codes of ethics, moral frameworks, engineering as social experimentation, assessment of safety and risk, safe-exit and fail-safe systems, rights and responsibilities.
 - To learn about confidentiality and conflict of interest, whistle-blowing, research integrity, consulting, expert witnesses, environment and sustainable development, globalization, appropriate technology, and moral leadership in engineering.
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Course Topics:

- Introduction and Ethical Dilemmas, Choices, and Codes of Ethics
 - Moral Frameworks for Engineering Ethics
 - Engineering as Social Experimentation
 - Safety and Risk
 - Case Studies for the Design Process
 - Engineer's Responsibilities and Rights
 - Case Studies for the Workplace
 - Honesty
 - Environmental Ethics
 - Global Issues
 - Cautious Optimism and Moral Leadership
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Designation:

Required