



**ENMG 656: Law and Ethics in Engineering Management
Course Overview**

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Course Description:

Engineering Law and Ethics explores engineering law and engineering ethics principally through engineering case reviews. The student will learn the fundamentals of ethical principles, how they are applied to real cases, the fundamentals of the American legal system, and basic legal principles, such as contracts, torts and intellectual property law, as they apply in the field of engineering.

Course Learning Objectives:

- Describe the fundamentals of the American legal system.
- Identify and apply the four elements of legal reasoning to resolve legal issues by review of cases with a focus in engineering.
- Recognize and apply fundamental substantive legal principles to a hypothetical engineering fact scenarios
- Compose and deliver, as part of the final presentation, a legal memo applying the elements of legal reasoning and substantive law to a student-selected engineering failure.
- Describe social, legal and ethical impacts of legal precedents with a focus on engineering cases.
- Describe professional and ethical standards in the field of engineering and how they apply to engineers as employees.
- Distinguish between legal liability and ethical behavior in engineering management.
- Identify, analyze and apply critical reasoning to ethical issues confronted by practicing engineers.
- Apply ethical reasoning to engineering-related issues such as risk/benefit analysis, group think and environmental ethics.