

## ESG 201-H Engineering Responses to Society (Elective)

### Course Catalog description:

Strong engineering skills alone are not sufficient to guarantee professional success in today's global economy. Industry requires that engineers also understand the business side of the organization, helping to ensure that products are quickly developed, brought to market and meet the ever increasing needs of the consumer. This class will introduce both engineering as well as non-engineering students to a host of business management practices including effective team building, communication, leadership and product development techniques.

*3 credits*

**Pre- or Corequisite(s):** One D.E.C. Category E (Natural Sciences) course

**Text(s):** Henry Petroski, *Invention by Design; How Engineers Get from Thought to Thing*, Harvard University Press, 1998, ISBN: 0674463684

### Course learning outcomes:

#### Topics Covered:

Week 1: Introduction

Week 2 – 5: Invention

Week 6: Patents and marketing

Week 7 & 8: Environment and technology

Week 9: The process of engineering

Week 10 & 11: Focus on specific case studies in engineering

Week 12 - 14 Industrial overview

#### Class/ Laboratory Schedule:

ESG Fall	201	Eng Responses to Society	LEC	1	TUTH	2:20 PM	3:40 PM
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ESG Spring	201	Eng Responses to Society	LEC	1	MF	9:50 AM	11:10 AM
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#### Contribution of Course to meet Criterion 5:

#### Relationship of course to program outcomes:

#### Person(s) who prepared this description and date of preparation: