



**THE OHIO STATE UNIVERSITY**  
COLLEGE OF ENGINEERING

# Assessment for Human Rights and Sustainability

## ENVENG 6600

### Credit Hours:

3.00 - 3.00

### Course Components:

Lecture

### Course Description:

Foundational concepts of human rights and environmental impacts pertaining to global supply chains. Regulations and voluntary standards in engineering-intensive sectors, including infrastructure, biofuels, electronics. Case study analysis of corporate assessment practices for labor rights protection and environmental impacts.

### Prerequisites and Co-requisites:

Prereq: Grad standing, or permission of instructor.

### Course Goals / Objectives:

- Explain the core concepts of human rights, sustainability and global supply chains 1.1 Define key terms 1.2 Explain key tenets of labor rights 1.3 Explain the scientific basis of planetary boundaries for CO<sub>2</sub>, fresh water, nutrients, etc
- Show that voluntary standards for global supply chains integrate core concepts of human rights and sustainability 2.1 Summarize key labor and environmental regulations 2.2 Identify gaps between legal protection and core concepts of human rights
- 2.3 Describe foundational concepts of Ruggie Principles and lifecycle assessment 2.4 List and explain best practices for voluntary standards in labor rights & environmental impacts
- 2.5 Compare and contrast voluntary standards programs for inclusion of best practices in labor rights & environmental impacts through supply chains 3. Analyze voluntary standards across engineering sectors
- 3.1 Deconstruct standards to identify key elements that are targeted 3.2 Explain how social context of sector innovation influences comprehensiveness
- 3.3 Assess practical implementation of voluntary standards at company scale with respect to inclusion or omission of best practices 4. Evaluate how voluntary standards drive innovation in business and regulatory sectors