

FALL
2025

DATA SCIENCES + OPERATIONS

DSO 505

SUSTAINABLE SUPPLY CHAINS

16219: Thu | 6:30 PM – 9:30 PM (ONLINE)

16220: Wed | 6:30 PM – 9:30 PM (In-person)

Both sections offered 1st Half of Semester

Instructor: Bonnie Nixon, Ph.D.

 Email TBD

Units: 1.5

Office: TBD

WHY TAKE THIS COURSE?



This is an important course for those supply chain, marketing and finance students interested in consulting, industry, government service or entrepreneurship. Sustainability is a critical topic of the day in boardrooms, government and financial institutions, Supply chains account for 80% of the planet's greenhouse gas emission, a significant portion of its pollution and disposal issues, and a large part of social and worker exploitation. This course provides an understanding of these issues, the consequences, trade-offs and how companies can address them in an end-to-end supply chain given today's environment. Actual commodities will be examined for opportunities lying in cost reductions, product innovation, new markets, increase in brand equity, compliance with mandates and cost reductions.

COURSE OBJECTIVES



To provide students with an understanding of the sustainability challenges, risks, trade-offs, trends and opportunities facing global supply chains today.

KEY CONCEPTS



- Sustainability and Supply Chain definitions and frameworks
- Consumer Brand and B2B Commodity Benchmarking
- Government and international standards, rules, laws, and ESG codes of conduct
- Sustainable design of products
- Supplier/Vendor management
- Monitoring and Verification Systems including LCAs
- Disclosure and Communication
- Supply Chain Innovations
- Marketing Transformation

Course Description



We will look at some of the factors that contribute to the adoption of sustainable supply chain strategies, such as code and policy formation, enforcement and or lack thereof and resulting environmental and social impacts, and society's expectations of business in terms of health, safety, human rights, ethics and the environment. To maximize profit and create shareholder value, supply chain performance measures social, environmental, community and economic impact.



[SCHEDULE OF CLASSES](#)