FASH A191: SUSTAINABILITY & RESPONSIBILITY IN THE APPAREL INDUSTRY

Item	Value
Curriculum Committee Approval Date	10/04/2023
Top Code	130300 - Fashion
Units	2 Total Units
Hours	36 Total Hours (Lecture Hours 36)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

Course Description

A look at environmental and social impacts the apparel manufacturing industry has had in the past and continues to have today. This class will explore the impacts associated with the process of developing and manufacturing apparel from fiber sourcing to warehousing, and sales to distribution. Additionally, this class will discuss innovative solutions that are in use today that counter those impacts. PREREQUISITE: FASH A190. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Students will recognize and evaluate international labor laws, social compliance, fair safe working conditions, and the role that corporate social responsibility plays in an organization.
2. Identify and appraise the impacts of design and manufacturing decisions in the apparel industry and their effects on people and the planet.

Course Objectives

- 1. Students will able to identify the impacts of manufacturing and recognize where they occur in the supply chain and the products life cycle
- 2. Students will learn how the impacts can be minimized and/or corrected throughout the supply chain.
- 3. Students will be able to identify apparel accessory items that have been designed with consideration of people and planet; i.e. sustainably made and critique those that have not.
- 4. Students will develop an understanding of sustainability marketing language that is appropriate to describe products and initiatives and will understand the difference between verified marketing claims, and “greenwashing.”
- 5. Students will research innovative solutions that are being developed for the future, from chemicals to raw materials to manufacturing processes.
- 6. Students will develop familiarity with the life cycle assessment (LCA) concept
- 7. Students will develop insights into the most current topics in sustainability in fashion: Circular Economy, Upcycled, Detox, ZDHC, Transparency, Waterless, Deforestation-Free, Carbon Neutral, Fair Trade, B Corps, etc.

Lecture Content

A. Sustainability overview - Refresh prep 1. Definitions 2. History 3. Lifestyle decisions 4. Leaders review (best brands, B Corps, etc.) 5. Set the tone B. Market scope in apparel manufacturing 1. Size impacts 2. Value/ Supply chain3. Retail categories4. Consumer trends 5. Consumer use C. Environmental externalities in apparel manufacturing 1. Water 2. Waste 3. Pollution 4. Land Use 5. Emissions D. Accounting for the impacts in apparel manufacturing 1. LCA2. True Cost Accounting3. Natural Capital/ Planetary boundaries4. EPL/ ESG reporting 5. Higg Index/ Impact calculation tools E. Raw materials and their impacts 1. MM Cellulosics 2. Cotton 3. Synthetics 4. Wool 5. Down 6. Furs 7. Leather 8. Plastics9. Bio synthetics/ latest material innovations F. Raw material processing product packaging and their impacts 1. Spinning 2. Knitting Weaving 3. Dyeing 4. Printings p; 5. Trimming 6. Packing 7. Transport G. Current sustainability topics in fashion 1. Detox, ZDHC, PFC free, RSL, MRSL 2. Microplastic/ micro fiber pollution 3. Circularity, Cradle to Cradle 4. Fair Trade, Fair Labor, Living wage, ILO Better Work 5. Transparency, Traceability 6. True cost accounting H. Labor social compliance 1. Code of Conduct 2. Fair Trade/Fair Labor Association 3. Responsible Purchasing Policies 4. SA8000 5. WRAP, SEDEX I. Better Materials/Solutions 1. Cotton a. Organic Cotton - Chetna b. BCI c. Recycled/Upcycled - Recovertex 2. Polyester a. Repreve - Recycled PET b. Thread 3. Nylon a. Teijin Recycled Nylon b. Econyl c. Parley 4. Plastics a. Ocean Plastic/Oceanworks B. Plastic free, plant cellulose, biodegradable 5. Cellulosic Fibers a. Lenzing b. Canopy Style 6. Chemicals a. Bluesign b. Clean by Design Chemistry 7. Leather, Wool Down a. LWG B. RWS C. RDS 8. Dyeing a. CO2 dyeing, waterless dyeing, Dyecoo b. Transfer Printing 9. Screenprinting a. Waterbase b. PVC Free c. PHthalate Free d. Digital Printing, print on demand 10. Water a. Aquasave B. Waterless processing C. Recycled water systems/ Closed Loop Manufacturing 11. Circular Economy A. New business models; re-use, repair, rentalB. Fashion Positive 12. Manufacturing and Sampling

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)

Instructional Techniques

Lecture, demonstration, field observations and guest speakers (as available), critique, guided online/print resources, documentary reviews, conference archives, student presentation.

Reading Assignments

Guided online and print resources provided by the instructor. Textbook reading. 2-3 hours per week.

Writing Assignments

Research paper. Assessments, reviews, and evaluations submitted in writing. 2-3 hours per week.

Out-of-class Assignments

Field observations and assessments. Documentary reviews. 1-2 hours per week.

Demonstration of Critical Thinking

Students will research, analyze and critique current sustainability practices through writing assignments, in-class discussion, business case proposals, and exams.

Required Writing, Problem Solving, Skills Demonstration

Student will complete the following based on course content and required assignments: reading/ writing assignments, short answer assessments, theory and solutions analysis, and prepare a sustainability lesson plan for fellow students.

Eligible Disciplines

Business: Masters degree in business, business management, business administration, accountancy, finance, marketing, or business education OR bachelors degree in any of the above AND masters degree in economics, personnel management, public administration, or Juris Doctorate (J.D.) or Legum Baccalaureus (LL.B.) degree OR bachelors degree in economics with a business emphasis AND masters degree in personnel management, public administration, or J.D. or LL.B. degree OR the equivalent. Masters degree required. Earth science: Masters degree in geology, geophysics, earth sciences, meteorology, oceanography, or paleontology OR bachelors degree in geology AND masters degree in geography, physics, or geochemistry OR the equivalent. Masters degree required. Fashion and related technologies (merchandising, design, production): Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Little, T.. The Future Of Fashion. Understanding Sustainability in the Fashion Industry, latest ed. New Degree Preess, 2018 Rationale: .

Periodicals Resources

1. . Bloomsbury Fashion Business Cases, Volume 2023