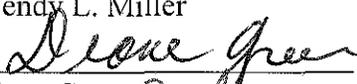
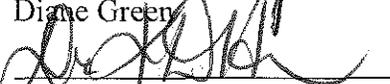


City College of San Francisco
Course Outline of Record

I. GENERAL DESCRIPTION

| | |
|-------------------------------|--|
| A. Approval Date | September 2014 |
| B. Department | Fashion |
| C. Course Number | FASH 113 |
| D. Course Title | Sustainability Issues in the Fashion Industry |
| E. Course Outline Preparer(s) | Wendy L. Miller |
| F. Department Chairperson |  Diane Green |
| G. Dean |  Kimberly Harvell |

II. COURSE SPECIFICS

| | |
|-------------------------|--|
| A. Hours | Lecture: 18 total |
| B. Units | 1 |
| C. Prerequisites | None |
| Corequisites | None |
| Advisories | None |
| D. Course Justification | Fashion products, like all manufactured consumer products, have a carbon footprint. Fashion students have expressed a desire to understand and find ways to reduce that impact. Both merchandising and design students need to understand the entire garment life cycle, and the impact of the industry on the environment and the people who work in it. This class will provide an overview of the entire supply chain for fashion products, and help our future fashion professionals make responsible choices. |
| E. Field Trips | Optional |
| F. Method of Grading | Letter, Pass/No Pass |
| G. Repeatability | 0 |

III. CATALOG DESCRIPTION

Overview of sustainability issues in the fashion industry. Supply chain, garment life cycle, environmental impacts of each step of production, sale, use, and disposal. Other impacts such as exploitation and poor working conditions. Mitigation strategies and responsible choices.

IV. MAJOR LEARNING OUTCOMES

Upon completion of this course a student will be able to:

- Diagram the life cycle of a garment from design to disposal.
- Categorize the types of environmental impacts of the various phases of fashion garment production, from raw materials to consumer use, and disposal.
- Describe the human costs associated with various phases of garment production.

- D. Compare strategies for reducing the environmental impacts of the fashion industry.

V. CONTENTS

- A. Current trend toward short design cycle
- B. The life cycle of the garment
 - 1. Design
 - 2. Manufacture
 - 3. Marketing
 - 4. Sale
 - 5. Consumer use
 - 6. End of life disposal
- C. The supply chain for fashion garment manufacture and sale
 - 1. General concepts of global fashion production
 - a. Multiple components used in each product
 - b. Separate facility for each process for each component
 - c. Transport between facilities and processes
 - d. Energy use, environmental impacts, human costs for each phase and component of production
 - e. Possible efficiencies and impact mitigation at each step
 - 2. Raw materials for fibers
 - a. Agricultural
 - 1. Animal
 - 2. Vegetable
 - b. Mineral and chemical
 - 3. Turning raw materials into fabrics
 - a. Milling fibers into yarns
 - b. Weaving yarns into cloth
 - c. Dyeing and finishing cloth
 - 4. Notions, findings, threads, closures, trims, labels and other elements used in garments
 - 5. Manufacturing garments using fabrics
 - a. Pattern and sample production
 - b. Cutting and sewing
 - c. Special process sub-contractors
 - d. Finishing and packaging
 - 6. Sale of fashion products to consumers
- D. Types of environmental impacts
 - 1. Water use and water pollution
 - 2. Pesticides, erosion, and soil degradation from agriculture
 - 3. Impacts of mineral extraction
 - 4. Chemical processes in yarn and fabric production
 - 5. Emissions from mills, production facilities, and transport
 - 6. Energy use by facilities
 - 7. Adding to the waste stream
- E. Human costs of fashion production

1. Working conditions of all workers along the supply chain
 - a. Sweatshops, exploitation, and regulations
 - b. Pay and working conditions
 - c. Chemical and toxic exposures
 - d. Child and forced labor
 - e. Facilities safety
2. The costs of consumerism
3. Diverting land use from food crops
4. Efforts to improve working conditions
- F. Strategies to reduce environmental and human impacts
 1. Staying local
 2. Efficiencies and waste reduction
 3. Plan for second or third use
 4. Reduce consumerism and lengthen the design cycle
 5. Union made
 6. Organic and recycled materials
 7. Upcycling
 8. Socially and environmentally responsible choices

VI. INSTRUCTIONAL METHODOLOGY

A. Assignments

1. In class
 - a. Weekly group discussions on topics covered in lectures, readings, or videos
 - b. Optional field trips such as sewing factories or recycling facilities
 - c. Create contract and work plan for capstone research project
 - d. Oral and/or visual presentation of capstone research project
2. Out of class
 - a. Weekly readings from texts, websites, handouts, or periodicals as assigned
 - b. Maintain a fashion consumer journal
 - c. Brief written answers (1 paragraph) to weekly questions on topics covered in class
 - d. Research and prepare final capstone research project on topics such as effectiveness of various impact mitigation strategies, or sustainable fashion business models, and prepare brief oral and/or visual presentation

B. Evaluation

1. Participation in class activities and discussions
2. Fashion consumer journal
3. Brief written answers to weekly questions
4. Contract and work plan for final capstone research project
5. Final capstone research project, both written and presentation to class

C. Textbooks and other instructional materials

1. "The Fashion Designer's Textile Directory", Gail Baugh, Barron's, 2011
2. Websites such as www.fibre2fashion.com, www.thinklifecycle.com, www.greenchoices.org/green-living/clothes/environmental-impacts

3. Articles in periodicals and online journals such as Women's Wear Daily, Huffington Post, Mother Jones

VII. TITLE 5 CLASSIFICATION

CREDIT/DEGREE APPLICABLE (meets all standards of Title 5. Section 55002(a)).