

FS 3280 - SUSTAINABLE MATERIAL + DESIGN STRATEGIES

Credits: 3

This course positions fashion design through the lens of sustainability using multidisciplinary methods and uncommon design strategies. Students are empowered to apply fiber knowledge with sustainable principles by exploring material origins and challenging existing methods to think beyond traditional design. This course will explore biomaterials such as cellulosic and bio-nylon and their current use among industry-leading sustainable brands. Students are introduced to an innovative approach to materials such as synthetic leather from mushroom roots, nylon processed from castor oil, or fabrics spun from spider silk. Students will learn how to experiment and innovate new textiles and design strategies to decrease environmental impacts without sacrificing form and function. Sketchbooks will be used for brainstorming, experimentation and process development.

Prerequisites: FS 1110 - Fashion Design I

Course Learning Outcomes:	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes
Apply sustainable principles to fundamental design principles from a holistic standpoint.	Student work displayed an excellent degree of competence in applying sustainable principles from a holistic standpoint.	Student work displayed a satisfactory degree of competence in applying sustainable principles from a holistic standpoint.	Student work displayed a limited degree of competence in applying sustainable principles from a holistic standpoint.	Student work displayed no degree of competence in applying sustainable principles from a holistic standpoint.	FS1, FS2	Critical Thinking, Cultural Competence, Design Competence
Experiment with new and existing materials creatively to discover long term industry solutions to fiber waste and environmental safety.	Student work displayed an excellent degree of competence in experimenting with new and existing materials.	Student work displayed a satisfactory degree of competence in experimenting with new and existing materials.	Student work displayed a limited degree of competence in experimenting with new and existing materials.	Student work displayed no degree of competence in experimenting with new and existing materials.	FS3	Critical Thinking, Design Competence
Discuss the importance of sustainable design strategies and their impact on the environment and fashion.	Student work displayed an excellent degree of competence in sourcing	Student work displayed a satisfactory degree of competence in sourcing	Student work displayed a limited degree of competence in sourcing	Student work displayed no degree of competence in sourcing	FS2, FS3	Critical Thinking, Design Competence, Cultural Competence
Recognize the importance of questioning industry deemed standard processes and challenging those processes from a sustainable design perspective.	Student work displayed an excellent degree of competence in prototyping standards	Student work displayed a satisfactory degree of competence in prototyping standards	Student work displayed a limited degree of competence in prototyping standards	Student work displayed no degree of competence in prototyping standards	FS1, FS5	Critical Thinking, Cultural Competence, Design Competence
Demonstrate innovative design strategies with minimal environmental impact.	Student work displayed an excellent degree of competence in technical packages	Student work displayed a satisfactory degree of competence in technical packages	Student work displayed a limited degree of competence in technical packages	Student work displayed no degree of competence in technical packages	FS5	Design Competence, Cultural Competence, Critical Thinking
Learn to use a sketchbook effectively for collection building.	Student work displayed an excellent degree of competence in complete line development	Student work displayed a satisfactory degree of competence in incomplete line development	Student work displayed a limited degree of competence in complete line development	Student work displayed no degree of competence in complete line development	FS5	Design Competence, Cultural Competence, Critical Thinking