Master of Science in Sustainable Design: Course Sequence

YEAR 1

Lectures
Sustainable Design Methodologies
- MSD 101 (3 credits)
  - Key Topics: History/Theory of Sustainability
  - LEED Rating System
  - Integrated Design Process

Adaptive Design
- MSD 103 (3 credits)
  - Key Topics: Understanding Environmental Forces
  - Scientific Methods
  - Environmental Visualization
  - Integrated Design Process

Year 1: Fall (15 weeks)

Sustainable Systems
- MSD 105 - Key Topics: Ecological Site Systems
  - High Performance Building Systems
  - Integrated Systems Design

Year 1: Spring (15 weeks)

Elective or Practicum
- MSD 131 (3 credits)
- Key Topics: MSD 12 Energy Modeling I (6 weeks)
  - MSD 13 Energy Modeling II (6 weeks)
  - MSD 14 Tensile Structure (6 weeks)

Year 1: Summer (varies)

B

LABS

Year 1: Fall (15 weeks)

Green Materials
- MSD 107 (3 credits)
  - Key Topics: Understanding Material Properties
  - Principles of Sustainable Materials
  - Green Material/Assembly Design

Green Design Build
- MSD 111 (3 credits)
  - Key Topics: Sustainability in Action
  - Application of Materials/Assemblies
  - Construction of Small Structure

YEAR 2

Year 2: Fall (15 weeks)

Sustainable Design Studio I
- MSD 201 (6 credits)
  - Key Topics: Collaborative Design
  - Interdisciplinary Design
  - Integrated Design
  - Ecological Design
  - Aesthetics of Green
  - Social/Cultural/Political Landscape

Year 2: Spring (15 weeks)

Sustainable Design Studio II
- MSD 203 (6 credits)
  - Synthesis Project

Year 2: Summer (12 weeks)

Sustainable Design Studio III
- MSD 205 (6 credits)
  - Key Topics: Synthesis Project Completion

TOTAL 33 CREDITS
Master of Science in Sustainable Design

* This Degree has not been officially Approved