Philadelphia University School of Architecture

Master of Science in Sustainable Design: Course Sequence

**Year 1: Fall (15 weeks)**
- **Sustainable Design Methodologies**
  - MSD 101 (3 credits)
  - History/Theory of Sustainability
  - LEED Rating System
  - Integrated Design Process

**Year 1: Spring (15 weeks)**
- **Sustainable Systems**
  - MSD 103 (3 credits)
  - Ecological Site Systems
  - High Performance Building Systems
  - Integrated Systems Design

**Year 1: Summer (varies)**
- **Elective or Practicum**
  - MSD 111 (3 credits)
  - Practicum project
  - MSD 112 Energy Modeling I (6 weeks)
  - MSD 113 Energy Modeling II (6 weeks)
  - MSD 114 Tensile Structure (6 weeks)

**Year 1 15 credits total**

**YEAR 1**

**Lectures**
- **Adaptive Design**
  - MSD 103 (3 credits)
  - Understanding Environmental Forces
  - Scientific Methods
  - Environmental Visualization
  - Integrated Design Process

**Laboratory (Labs)**
- **Green Materials**
  - MSD 107 (3 credits)
  - Understanding Material Properties
  - Principles of Sustainable Materials
  - Green Material/Assembly Design

**OR**
- **Green Design Build**
  - MSD 117 (3 credits)
  - Sustainability in Action
  - Application of Materials/Assemblies
  - Construction of Small Structures

**Knowledge and Intuition**

**Year 2: Fall (15 weeks)**
- **Sustainable Design Studio I**
  - MSD 201 (6 credits)
  - 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 205 (6 credits)
  - Synthesis Project

**Year 2: Summer (12 weeks)**
- **Sustainable Design Studio III**
  - PMSD 205 (6 credits)
  - Synthesis Project Completion

**Year 2 18 credits total**

**YEAR 2**

**Studios**

**Total 33 Credits Master of Science Sustainable Design**

* This Degree has not been officially Approved: Fall 06 Start Date