

SUSTAINABLE DESIGN (MS)

Contacts

Program Director: Robert Fryer, RA, LEED AP BD+C, NCI

Email: Robert.Fryer@jefferson.edu

215-951-5634

Campus: East Falls

Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/architecture-and-the-built-environment/programs/sustainable-design-ms.html>)

Program Description

- STEM designated program

The MS in Sustainable Design prepare students for the built environment industry by teaching specific skill sets necessary to conceptualize measure and construct a sustainable environment. This is balanced by broader, theoretical avenues of study that emphasize systems thinking, which place the technical knowledge gained in the program into context.

The on-campus program culminates with a two-semester thesis project that is meant to provide a component of depth in a specific built environment discipline or a particular subset of sustainability. Online students complete a shorter capstone project.

Learning Goals/Outcomes

- Apply skill sets necessary to accomplish effective sustainable design project as response to environmental, social & economic force
- Provide leadership, team building and organizational skills for diverse groups through the integrated process
- Work effectively within groups of varied disciplines
- Synthesize theories of sustainability into comprehensive research and design projects
- Develop diversity initiatives integral to sustainability problem-solving process as a reflection of emerging global marketplace
- Apply ethical values to integrated design process and to selection of systems and materials for a built project
- Bring innovation to fields & anticipate future directions in professions by adapting to social, environmental & economic changes

Curriculum: 2 Year, 33 Credits

2-Year On Campus Program

Course	Title	Credits
First Year		
SDN 601	Princ & Methods of Sust Design	3
SDN 602	Adaptive & Resilient Dsgn Sdio	3
General Elective		3
SDN 604	Life Cycle Assess & Circ Econmy	3
SDN 621	MS: Resilient Cities & Comms	4
SDN 623	SC: Eco Sys for Resilnt Cities	2
Credits		18
Second Year		
SDN 622	MS: Living Buildings	4
SDN 624	SC: Sust Syst for Living Bldgs	2

Course	Title	Credits
SDN 900	Thesis in Sustainable Design I	3
SDN 901	Thesis in Sustainable Desgn II	6
Credits		15
Total Credits		33

2-Year Online Program

Course	Title	Credits
First Year		
SDN 601	Princ & Methods of Sust Design	3
SDN 602	Adaptive & Resilient Dsgn Sdio	3
SDN 621	MS: Resilient Cities & Comms	4
SDN 623	SC: Eco Sys for Resilnt Cities	2
General Elective		3
Credits		15
Second Year		
SDN 624	SC: Sust Syst for Living Bldgs	2
SDN 604	Life Cycle Assess & Circ Econmy	3
SDN 622	MS: Living Buildings	4
SDN 628	Capstone in Sustainable Design	6
General Elective		3
Credits		18
Total Credits		33