

# SUSTAINABLE DESIGN - IN PARTNERSHIP WITH BRICK (MS)

Code	Title	Credits
SDN 900	Thesis in Sustainable Design I	3
SDN 901	Thesis in Sustainable Design II	6

## Contacts

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

**Email:** Robert.Fryer@jefferson.edu

## Program Description

- STEM Designated Program

The MS in Sustainable Design prepares 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.

Students study for the first two semesters online in India, with one class in person at the Brick School of Architecture. In year two students will move to the United States and take classes on campus at East Falls. After completion from this STEM-designated program, international students are eligible for an extension of the Optional Practice Training period and may reside in the United States for three additional years to work in their field.

## 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 years, 33 credits

Code	Title	Credits
Year 1- In India		
SDN 601	Princ & Methods of Sust Design	3
SDN 602	Adaptive & Resilient Dsgn Sdio	3
SDN 609	Building Info Modeling for SD	3
SDN 621	MS: Resilient Cities & Comms	4
SDN 623	SC: Eco Sys for Resilnt Cities	2
Year 2- In Philadelphia		
SDN 604	Life Cycle Assess & Circ Econmy	3
online		
SDN 622	MS: Living Buildings	4
SDN 624	SC: Sust Syst for Living Bldgs	2