

Course Number

ENS-253-01

Course Description

Mafi) Many energy consumption and adverse environmental effects are attributable to buildings and their use. In this course, through instructions, hands-on experience, computer simulation, and research, the students will become acquainted with the inner workings of the subsystems in buildings: foundations, framings, walls, sidings, roof, electrical systems, lighting, appliances, heating, air-conditioning, ventilation, indoor air quality, basement, crawl space, attic, water and moisture management; plumbing, flooring, finishes, furniture, insulation, xeriscaping, and LEED rating system. The students will become aware of indoor and outdoor environmental issues and the life cycle costs of the existing systems. They will also learn the latest science and technology to reduce the negative effect of these subsystems on the environment. Laboratory: hands-on experience with the above subsystems, site visits, Computer simulations, research, projects, and presentations. There are no pre-requisites for this course and it is open to all students. This course has a lab: ENS 253L Course Types: SET, GDQR, GETS, SCLB Interdisciplinary Studies Programs: ENS, STS

Academic Term

22/FA

Instructor

Mafi, Mohammad

Location & Meeting Time

Olin Building-106+ T/TH 10:55AM-12:40PM LEC

Credits

1.00

Capacity

12

Total Students

11

Common Curriculum

SET

GDQR

GETS

SCLB

Interdisciplinary Programs

Science, Medicine & Tech in Cu

Environmental Science & Policy

Academic Department

Environmental Science & Policy

Field Of Study

Env Science, Policy & Engrng (ENS)