



## ***Arcology and Renewable Energy***

**CRN 82700 Sci 399 MTWR 10-12:10 CH287**

**June 25-July 19, 4 credits**

**Instructor: Candace Gossen** ([gossen@pdx.edu](mailto:gossen@pdx.edu))

Architecture + Ecology = Arcology. Understanding the impact of buildings and cities on the natural environment will be discussed in case study form using visionary ideas like Arcology, Earthships, Underground and Infrastructures and eco-cities in harmony with nature. We will take the perspective from a science point of view understanding the value of living roofs as carbon sequestering assets, living machines for clean water resources, renewable energy like solar and wind as solutions to global warming. Integration is the objective. The class will use the urban environment as study models and will include field trips along with hands-on building of model prototypes to learn.

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