

Biomimicry: A Sustainable Design Methodology



Course Description

Nature offers boundless inspiration for sustainable design, but how do we access the wealth of biological information available and apply it effectively to design? This course provides an introduction to biomimicry, a new discipline that emulates nature's best ideas and blueprints in order to solve human design challenges. Each week you'll get outside to explore nature and learn a key biomimicry design concept that you'll then apply to develop a novel biomimetic design.

Learning Outcomes

After the completion of this course, you will be able to:

- Define and apply key concepts employed in biomimetic design through the experience of creating novel biomimetic designs.
- Differentiate between nature's unifying patterns, strategies and functions, and apply them to human-made designs.
- Observe nature and conduct research to learn from nature through real-world, outdoor observations.
- Employ the biological solutions database AskNature.org to serve as a research tool for design challenges.