Biomimicry Design and Application

3h course 3100:695 Thu 1:45-4:30 / TBD
open to Art, Biology, Engineering

Special Topics in Biology Spring 2017
Petra Gruber

Biomimetic Design Challenge
Spaceflight Exercise Equipment

The Design Challenge seeks bio inspired approaches for compact and efficient spaceflight crew exercise equipment accessories and interfaces to the crew. These concepts would seek to address challenges with implementing exercise in zero-gravity to include novel stowage and deployment features, improve crew comfort, and improve the efficiency of spaceflight exercise equipment (reducing mass and volume requirements on the vehicle). Interdisciplinary design teams will cooperate with NASA mentors and other departments at the University of Akron taking on a specific biomimicry and design perspective to develop novel solutions and prototypes for the given design challenge.

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