

### **Unique Offerings at Olin College of Engineering**



# VISION

Lead the transformation of undergraduate engineering learning experience to educate the next generation of innovators who want to better the world.



# MISSION

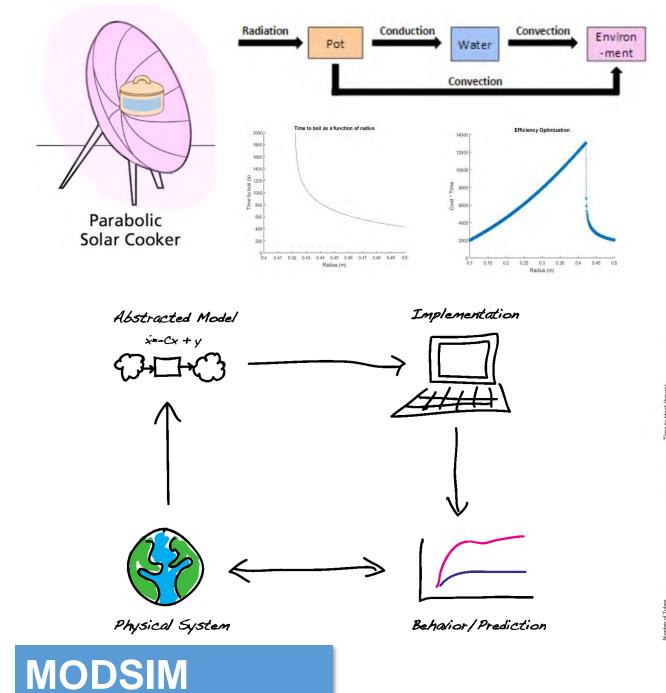
Olin College prepares students to become exemplary engineering innovators who recognize needs, design solutions and engage in creative enterprises for the good of the world. Olin is dedicated to continual discovery and development of effective learning approaches and environments, and to co-developing educational transformation with collaborators around the globe.

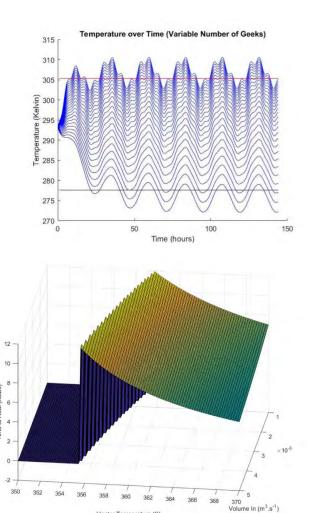


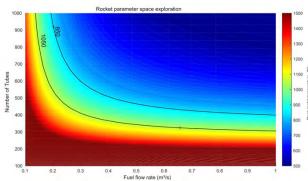
### **The First Year Experience**

Introduction to Sensors, Instrumentation, and Measurement (ISIM) Modeling and Simulation (MODSIM) Design Nature (DesNat) Products and Markets (P&M)

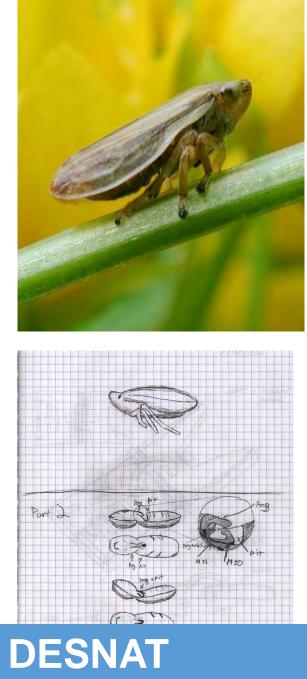


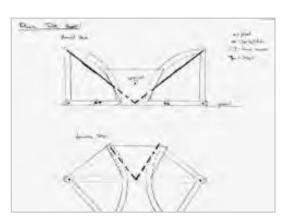




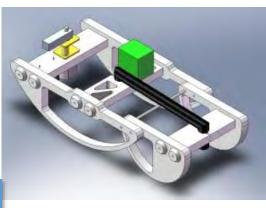


Heater Temperature (K)















## The Design Stream

User Oriented Collaborative Design (UOCD)

**Integrated Product Design** 

Sustainable Design

Affordable Design and Entrepreneurship (ADE) ...and many more



### AHS\*-and... Integration

\*AHS = Arts, humanities, and social sciences

Six Books that Changed the World Six Microbes that Changed World The Intersection of Art and Science



### And So Much More

Olin Conductorless Orchestra Engineering for Humanity Teaching and Learning Investigating Normal Introduction to Sustainability



#### **Experimental Courses:**

**Education Design Studio** 

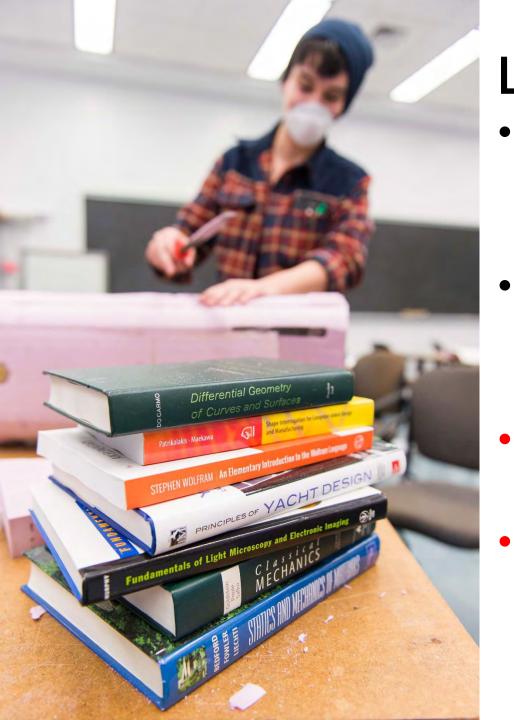
- **Environmental Analysis and Science**
- Neurotechnology, Brains and Machines
- **Biomedical Device Design**
- **Quantitative Biology**

Emerging Technologies in Cancer Research, Diagnosis and Treatment



Quantitative Engineering Analysis "If you want to engineer effectively, you must be able to choose and use appropriate quantitative approaches for a given situation."

Credit: the QEA teams, including Rebecca Christianson, John Geddes, Siddhartan Govindasamy, Mark Somerville, Chris Lee, Paul Ruvolo, Samantha Michalka



## Learning objectives include:

- Ability to select and appropriately apply quantitative tools for engineering analysis in context.
- Demonstration of understanding and ability to implement a variety of quantitative tools for analysis.
- Clear communication of technical process and results.
  - Professionalism in terms of participation, teamwork, and completion of work on time.

Credit: the QEA teams, including Rebecca Christianson, John Geddes, Siddhartan Govindasamy, Mark Somerville, Chris Lee, Paul Ruvolo, Samantha Michalka



#### **Integrated Science**

Chemistry, biology, materials science, AHS\*

2 semesters, 12 credits (total)

Fulfills all foundational science and AHS requirements

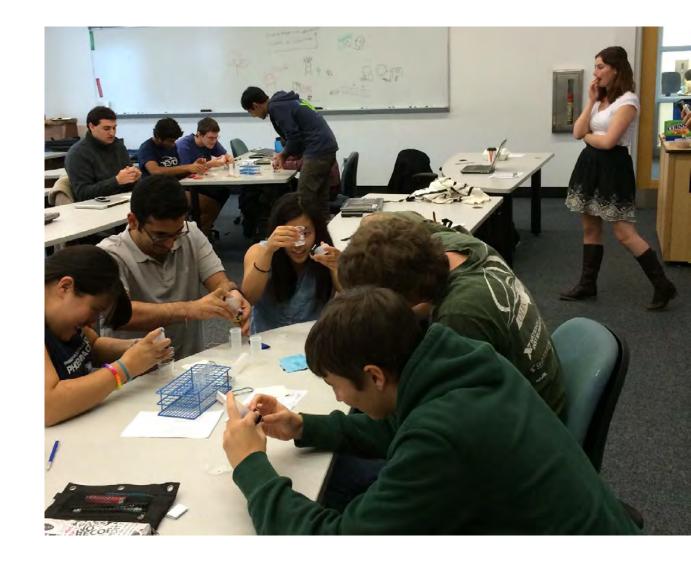
\*Arts, humanities, social sciences



#### **Integrated Science**

Semester 1: lead project Semester 2: TBD

Science fundamentals + context





## **Beyond the Classroom** Co-curriculars Passionate pursuits