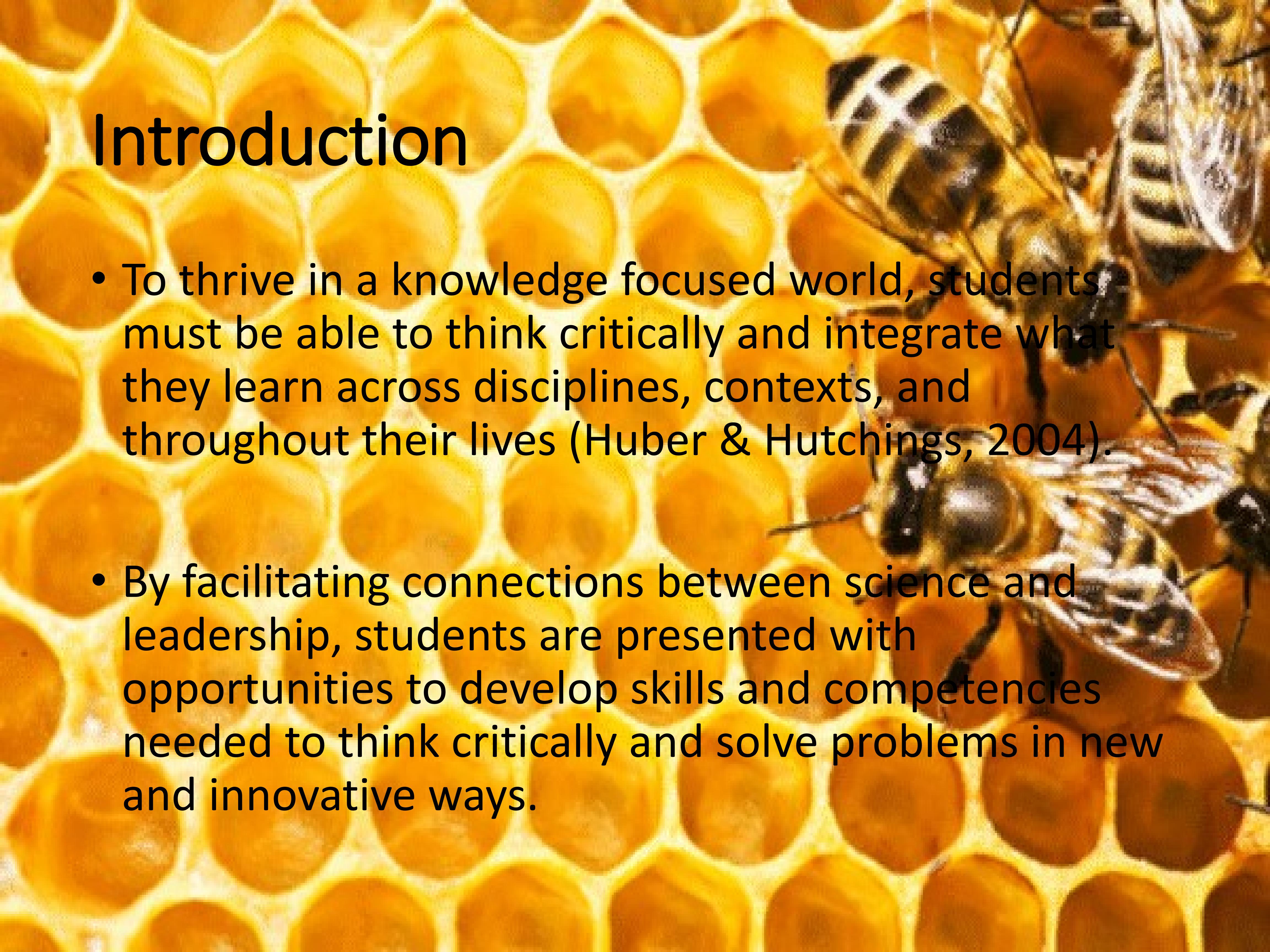
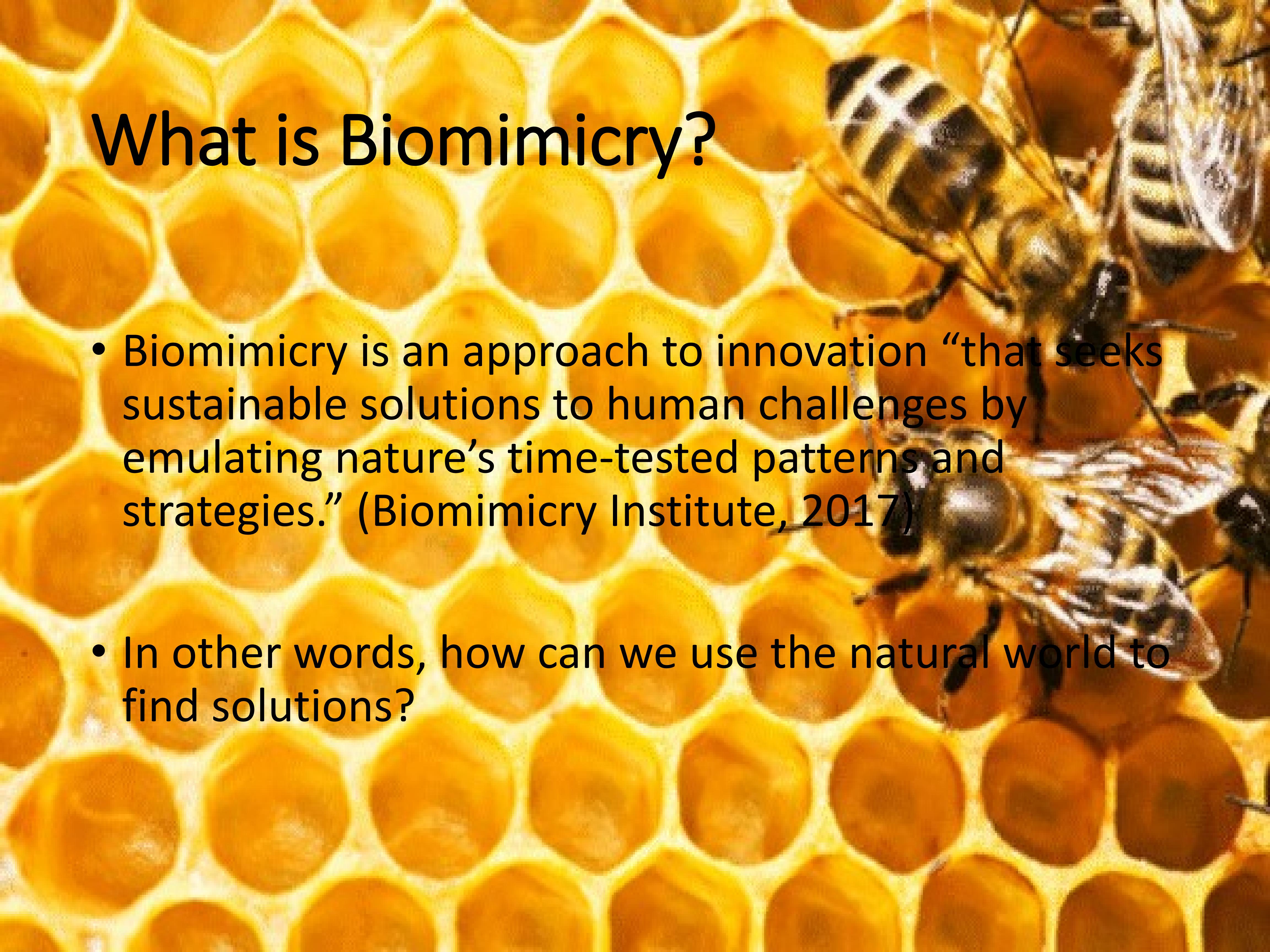


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Tracy Rutherford, Ph.D.









 Researchers discovered that the bumps at the front edge of a whale fin greatly increase its efficiency by reducing drag and increasing lift.

 Companies are applying the lessons learned from the research to the design of wind turbine blades. The technology also has the potential to improve airplane safety.

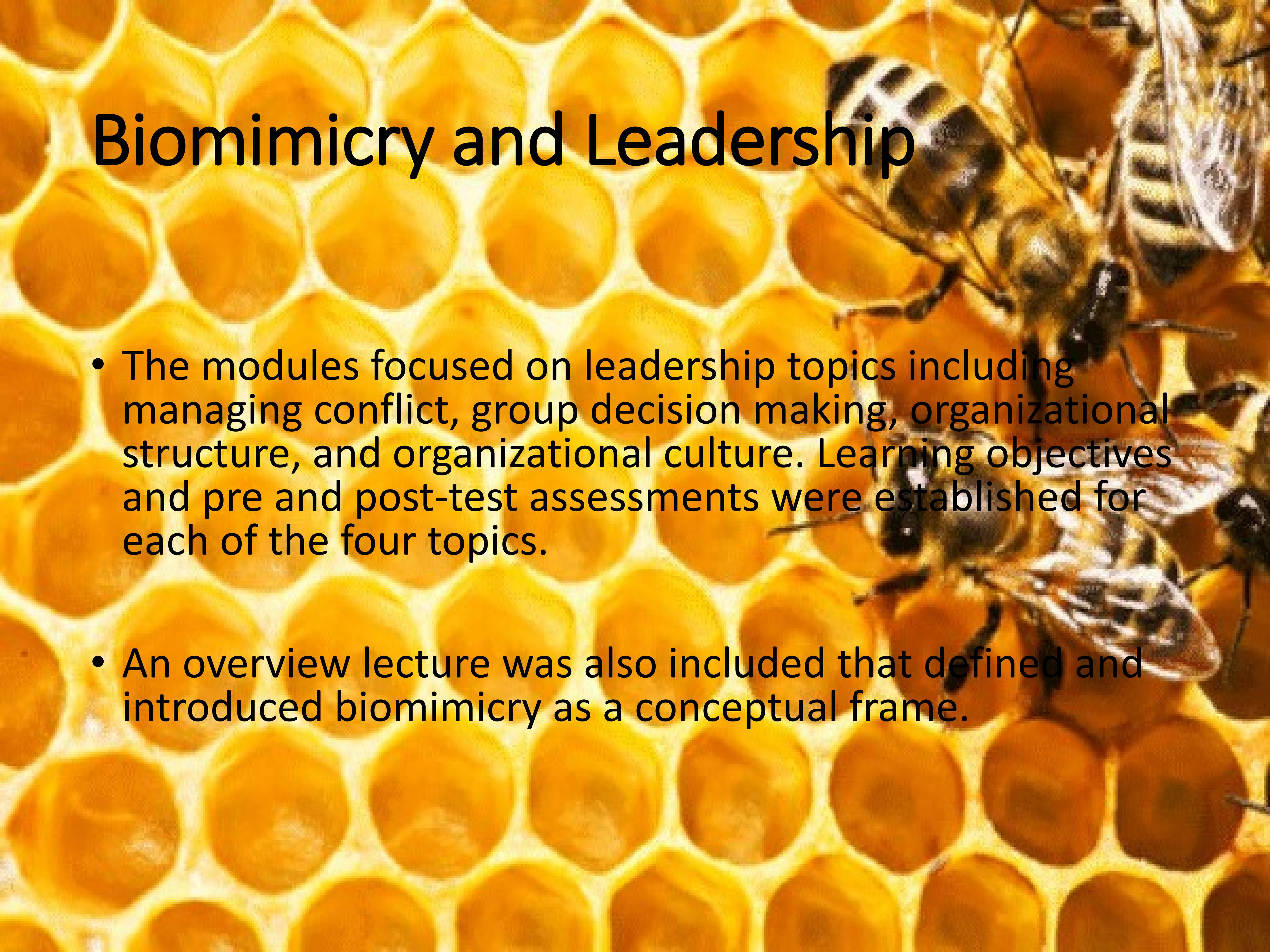
(Biomimicry Institute)



Biomimicry and Leadership



- Three student interns paid to develop learning modules integrating biomimicry and leadership
- Interns had training from an expert in biomimicry and assistance instructional designers
- Linked leadership concepts with honey bee behavior for an introductory agricultural leadership course
- Used Articulate Storyline 2 software



Module Example



Menu Transcript

▼ Intro

Opening

Objectives

3 Things to Ask In Any Setting

- Identifying Culture
- Living Within Multiple Cultures
- Communities
- ▼ Wrap Up

Module Review

Review Question #1

Review Question #2

Review Question #3





Menu Transcript

- Intro
- Identifying Culture
- Living Within Multiple Cultures How can honey bees exhibit mult... Multicultural Appreciation Tabs 5 Cross-Cultural Competencies

How do honey bees and humans ...

Question #1

Question #2

Question #3

- Communities
- → Wrap Up

Module Review

Review Question #1

Review Question #2 Review Question #3

ALED 202- Intro to Leadership

Resources

How do honey bees and humans compare in terms of multiple cultures?

honey bees

humans

Honey bee hives are supported by different roles within the hive that each play a part in maintaining balance.

People represent any of the thousands of cultures on earth. Learning about and getting to know them helps to create a peaceful, livable planet.









NEXT >



Menu Transcript

- ▶ Intro
- Identifying Culture
- Living Within Multiple Cultures
 How can honey bees exhibit mult...
 Multicultural Appreciation Tabs

5 Cross-Cultural Competencies

How do honey bees and humans ...

Question #1

Question #2

Question #3

- Communities
- ▼ Wrap Up

Module Review

Review Question #1

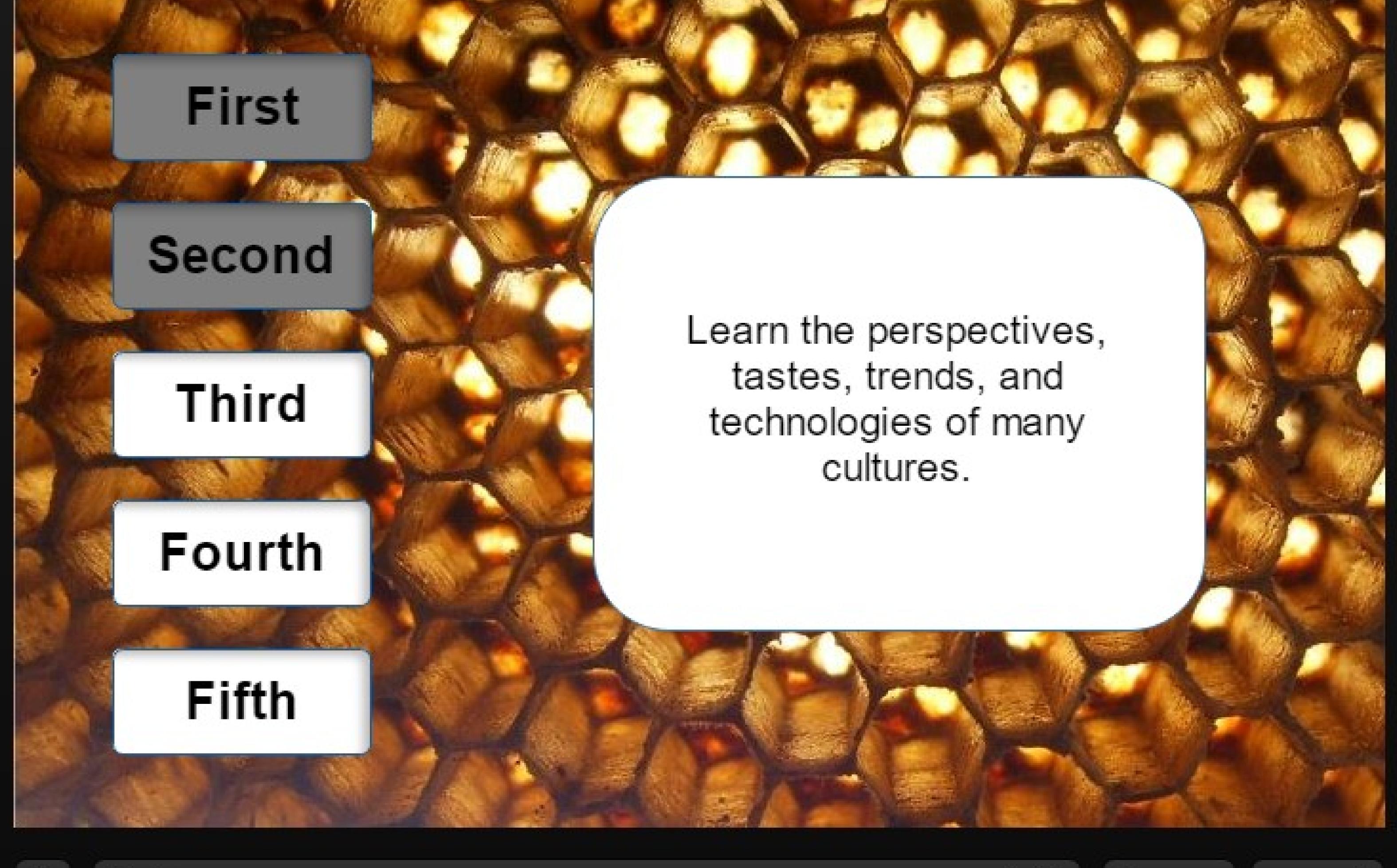
Review Question #2

Review Question #3



Resources

The 5 Cross-Cultural Competencies For Leaders











NEXT >



 The modules were incorporated into the curriculum of a pilot-test section of an undergraduate introductory agricultural leadership course (n = 17 students).

 At the end of the semester, a field trip to a Central Texas honey production facility was conducted so students in the leadership course could identify leadership concepts or behaviors discussed through

out the course.

Biomimicry and Leadership



 At the conclusion of the course, students applied critical thinking by developing their own creative naturalistic solutions.

 Long-term goals include combining principles of biomimicry into other undergraduate agricultural leadership courses and standalone trainings.