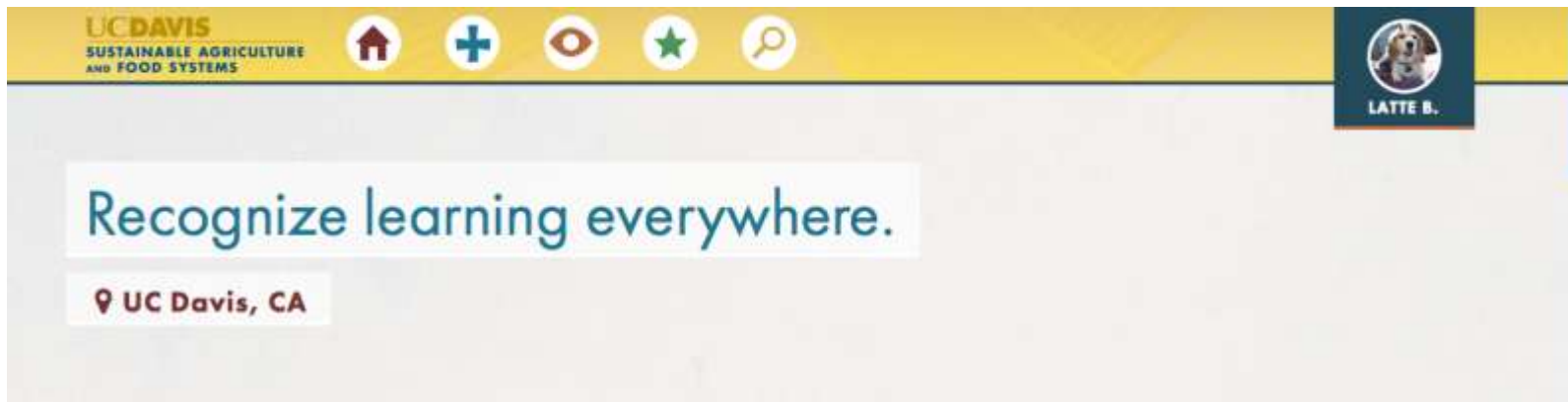


**UCDAVIS**

**AGRICULTURAL  
SUSTAINABILITY INSTITUTE**

*College of Agricultural and Environmental Sciences*

# UC DAVIS BADGES



Presented by Joanna Normoyle,  
Experiential & Digital Media Learning Coordinator



# UC DAVIS ESTABLISHES SA&FS MAJOR

**Students now enrolling in and graduating from Sustainable Agriculture & Food Systems, an interdisciplinary program resulting from an ongoing collaboration between eight departments in the College of Agriculture & Environmental Sciences and the Agricultural Sustainability Institute.**

## INFORMING THE UC DAVIS CURRICULUM DEVELOPMENT PROCESS



*A Delphi Study of Sustainable Agriculture Stakeholders*

UC DAVIS



School of Education

## THE DELPHI STUDY

The UC Davis School of Education conducts a survey of faculty, students, alumni, and practitioners in the field to identify the most important content, skills and experiences to incorporate into the SA&FS curriculum



# Knowledge (Content)

**Table 2: Mean Scores for Content by Group**

TOPIC	ACADEMICS		PRACTITIONERS		ALUMNI		STUDENTS	
	MEAN	#	MEAN	#	MEAN	#	MEAN	#
Soil Science	4.33	5	4.05	6	4.38	9	4.48	5
Ecology	4.48	6	3.90	10	4.33	9	4.28	6
Pests	4.20	2	4.03	5	4.28	4	4.48	5
Water	4.02	3	3.88	7	4.44	4	4.40	1
Farming Practices	4.20	5	3.82	4	4.27	24	3.90	5
Research Methods	4.03	2	3.91	4	4.28	1	4.40	1
Philosophy and Ethics	3.79	3	3.69	3	4.22	1	3.93	4
Business/Economics	3.88	5	3.91	9	4.14	9	4.00	6
Policy	4.02	2	3.75	2	4.06	10	4.07	3
Animal science	4.02	2	3.75	3	3.83	2	4.20	3
Marketing	3.82	1	3.81	5	3.83	3	4.17	3
Plant science	3.59	1	3.84	8	4.00	6	4.23	4
Food systems	3.94	6	3.65	2	4.22	1	3.90	1
Social Studies	3.76	2	3.71	2	3.94	5	3.78	1
Ways of Knowing			3.79	3	4.24	2	3.94	2
History	3.69	2			4.09	7	3.93	3
Other Natural Sciences	3.92	2	3.60	2	3.65	1		

3 = Important, 4 = Very Important, 5 = Extremely Important

Blank spaces indicate no mention of topic.



# Skill

**Table 4: Mean Scores for Skills by Group**

TOPIC	ACADEMICS		PRACTITIONERS		ALUMNI		STUDENT	
	MEAN	#	MEAN	#	MEAN	#	MEAN	#
Problem Solving	4.05	8	4.10	6	4.56	1		
Thinking Skills	4.08	11	4.14	7	4.33	4	4.57	3
Communication Skills	4.19	7	3.99	7	4.08	12	4.37	3
Systems	4.00	3	3.93	3	4.33	2	4.36	5
Professional and People Skills	4.09	18	3.79	6	4.17	12	3.90	2
On-Farm	3.67	4	4.00	6	4.30	19	4.26	13
Conservation Methods	3.90	2	3.82	1	4.11	3		
Management	3.89	7	3.99	4	3.89	2	4.20	1
Observation/Identification	3.88	4	4.06	3	4.42	2	4.30	3
Research Skills	3.71	3	4.29	1	4.17	7	4.03	3
Computer	4.16	4	4.21	1				
Economic Evaluation			3.92	5	4.17	3	4.30	1
Equipment			3.89	1	4.17	4	4.10	4
Design/Visioning	4.02	4	4.03	4			4.10	2
Business			3.83	6	3.86	2	3.75	1
Marketing			3.98	3	3.78	1	3.95	1
Experimental Process /								
Quantitative Skills	3.80	4			4.09	3	4.00	3

3 = Important, 4 = Vary Important, 5 = Extremely Important

Blank spaces indicate no mention of topic.



# Experience

**Table 3: Mean Scores for Experiences by Group**

TOPIC	ACADEMICS		PRACTITIONERS		ALUMNI		STUDENTS	
	MEAN	#	MEAN	#	MEAN	#	MEAN	#
Internships	3.37	4	4.13	4	4.01	6	4.00	3
On-Farm Experiences	3.75	6	4.10	5	4.32	5	4.33	11
Visits/Trips	4.00	3	3.94	5	4.17	11	4.20	6
Teaching Approaches	3.97	8	3.87	9	4.08	12	4.00	8
Planning/Management	3.78	1	3.60	2	4.09	3	3.78	1
Research	3.77	5	3.66	4	4.09	6	3.78	1
Networking/Community Building	3.67	1	3.80	3	3.98	3	4.10	2
Practical experience			3.90	6	4.35	2		
Communication	3.95	2			4.12	5	3.95	2
Lab	3.91	3			4.17	1		
Environmental	3.85	2	4.22	1			4.33	1
Business			3.61	3	4.28	1	4.23	4
Marketing			3.72	2	3.78	2	3.70	1

3 = Important, 4 = Very Important, 5 = Extremely Important

Blank spaces indicate no mention of topic.

# Competence

*A competency is “a combination of skills, abilities, and knowledge needed to perform a specific task” (U.S. Department of Education 2001)*



# SYSTEM OF BADGES FOR SUSTAINABLE AGRICULTURE & FOOD SYSTEMS MAJOR AT UC DAVIS

**SKILL**

**KNOWLEDGE**

**HONOR**

**EXPERIENCE**

**COMPETENCE**

*Category-level  
Badges*



Strategic  
Management

Systems  
Thinking

Experimentation  
& Inquiry

Interpersonal  
Communication

Understanding  
Values

Civic  
Engagement

Personal  
Development



*Badges for the SA&FS Competencies*



# Systems Thinking

Students are competent in the analysis of complex systems, integrating societal, environmental and economic perspectives. Students reflect systems thinking in a deepening understanding of complexity, holistic approaches, and how the parts relate to the whole.<sup>1</sup>



# Experimentation and Inquiry

Students formulate questions, investigate current knowledge gaps, develop sound research design, learn current research methods and perspectives, experiment with new approaches to scientific inquiry, and integrate scientific and practical knowledge.<sup>2</sup>



# Understanding Values

Students reflect critically on their own values and examine different paradigms and perspectives, seeing beyond objective data to understand how values shape commerce, research, policy and action in sustainable agriculture and food systems.



# Interpersonal Communication

Students work in collaborative teams, present information for varied contexts and audiences, negotiate approaches and viewpoints and take leadership roles on important issues.



# Strategic Management

Students work to collectively design and implement interventions, anticipating future scenarios and adaptively managing information, human and natural resources for maximum impact.<sup>3</sup>



# Civic Engagement

Students work to make a difference in the civic life of their communities, through both political and non-political processes. As part of a larger social fabric, students consider social problems to be at least partly their own; make and justify informed judgments; and take action when appropriate.<sup>3</sup>



# Personal Development

Students seek deeper understanding of their own and thinking and learning processes. They can tolerate ambiguity, respecting those with differing opinions and beliefs, while setting firm standards for behavior and holding themselves and others accountable<sup>4</sup>. Students work to promote open expression of individuality and diversity within the bounds of courtesy, sensitivity and respect<sup>5</sup>.



**EARNING BADGES:**

**SO HOW DOES  
THIS ACTUALLY  
WORK?**

## New around here?

Welcome to the UC Davis Sustainable Agriculture and Food Systems Badges project! Tell us a little more about yourself, then we'll move right along to the fun parts.

### Basics

FIRST NAME \*

LAST NAME \*

EMAIL ADDRESS \*



### Your bio

*Why did you choose the SAFS major? What brought you to UC Davis?*

### Goals & interests

*What do you hope to learn here at UC Davis?*

✕ CANCEL

✓ SAVE IT



## Learning through experience

The heart of our system is to reflect on your experiences in the field, around campus, and anywhere you find learning. Record your experience below.

TITLE \*

TYPE



BRIEF DESCRIPTION



### More details about this experience

*Need to explain more blah blah blah.*

Who was involved?

Where was this?

ADD A PERSON \*



LATTE B.



GRASSHOPPER B.



MONKEY R.



CRICKET B.



INDY J.

ADD AN ORGANIZATION

CITY, STATE



When was this?

*Include at least the start date.*

START DATE \*

END DATE

Notes for myself

*Leave yourself some notes about this experience.*

✕ CANCEL

✓ SAVE IT



LATTE B.



TRISH A.

# Arch Hunting

Moab, Utah



EXPLORATION

Aug 28-29, 2013  
Searching for arches under the hot Utah summer sun.



RAMSEL R.



MONKEY R.

[VIEW FULL DETAILS >](#)

[VIEW ALL PARTICIPANTS >](#)



ADD  
SUPPORTING  
WORK

T TEXT

FILE

LINK

AUDIO

PHOTO

VIDEO

WAYFINDING

HIKING

HYDRATION

[SELECT NEW OUTCOME >](#)





TRISH A.

## Arch Hunting

Moab, Utah



EXPLORATION

VIEW



ADD  
SUPPORTING  
WORK



Barefoot friction climbing

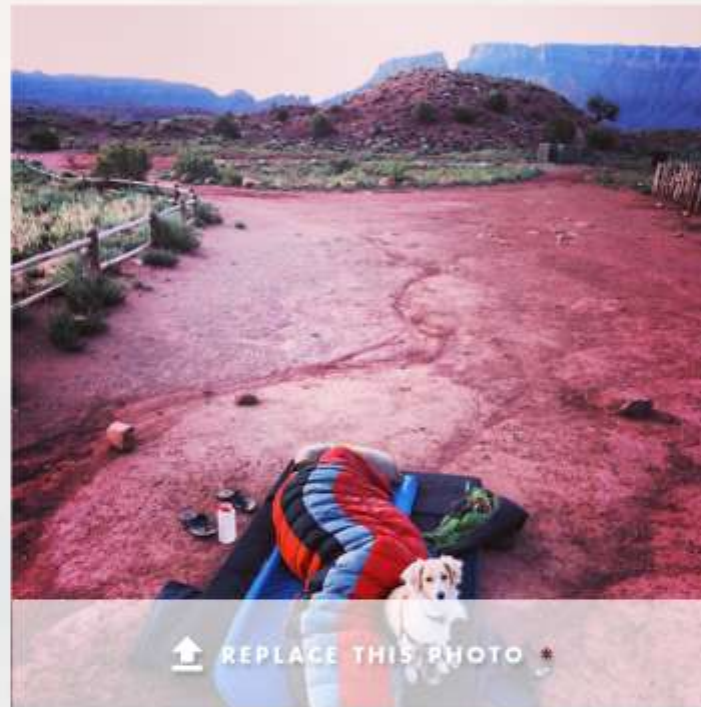
Map to Arches  
National Park in  
Moab, Utah



### Add supporting images

Show off your work! Give a glimpse at what you did at this experience, where it took place, or what you created.

TITLE \*



REPLACE THIS PHOTO \*

CANCEL

SAVE IT



MONKEY R.

PARTICIPANTS >

EG

OUTCOME >

...y far the most  
...ke desert I've  
...all year.

- MONKEY R.

...more sand.

- RAMSEL R.

BACK REQUEST >

[VIEW FULL DETAILS >](#)[VIEW ALL PARTICIPANTS >](#)

ADD  
SUPPORTING  
WORK

T TEXT

FILE

LINK

AUDIO

PHOTO

VIDEO



Barefoot friction climbing.



Driving down the Dinosaur Diamond Prehistoric Highway.

## Map to Arches National Park in Moab, Utah



Download arches-directions.pdf

## Why we visited Arches

Arches is a National Park in Utah, located near Moab. We decided to visit, despite our original plans of climbing in Joe's Valley, because when we got to Joe's Valley, it was raining cats and dogs. Literally. Okay not literally, but there was indeed a lot of rain.

### WAYFINDING

### HIKING

### HYDRATION

[SELECT NEW OUTCOME >](#)

"This is by far the most desert-like desert I've been to all year.

- MONKEY R.

"Needs more sand.

- RAMSEL R.

[SEND A FEEDBACK REQUEST >](#)



Stole this from the Arches website.



Arches National Park

[WWW.NPS.GOV/ARCH/INDEX.HTM](http://WWW.NPS.GOV/ARCH/INDEX.HTM)

## Choose a badge to work towards

Every journey begins with a step, and this one starts when you find a badge you'd like to earn. Browse through the available badges below, or if you're feeling ambitious, [design your own badge from scratch](#).



### First Badge

*Really interesting badge for being awesome.*



### Education and Outreach

*Involving communication, organization and curriculum development skills.*

TYPE



**X CLEAR FILTERS**

SEARCH







LATTE B.

## Design a new badge

Be specific so the user understands what exactly you are looking for. Example: After Dinosaur #1 moves out of his/her parents' den what will Dinosaur #1 do? We need to know his employment plan, feeding area, as well as living situation. This information will not be sold or given to carnivores.

BADGE NAME \*

TYPE



BRIEF DESCRIPTION



### Add criteria for this badge

Need to explain more blah blah blah.

#1



X CANCEL

✓ SAVE IT

## Make your case and earn this badge

Now that your goal is in sight, provide evidence to let us know why you're qualified for this badge. Select a criteria, and then associate work from your portfolio with each. Be sure to articulate your choices as necessary.



### Lead Belay Badge

Prove that you're okay with falling off a wall. Also don't deck your climber, bro.

### Criteria for the Lead Belay Badge

For each criterion, add supporting experiences or specific works.

#1

Rope management 101.  
Be able to read how much rope is in the current system.

+ ADD WORK



20/20 vision.



Indy Jones



I'm pretty sure I passed trig in high school.


Math 21C






Arches is a National Park in Utah. I decided to visit, despite our orange weather in the Valley, because when we got to the park, we got cats and dogs. Literally. Okay, and it rained a lot of rain.

Essay on bouldering





Indy Jones



#2

Don't deck your climber.  
Break hand down!

 **ADD WORK**

### Nothing to see here

*Get started associating work and experiences with that big green button to the left there.*

### Reflections on the Lead Belay Badge

*Summarize your thoughts here. Why are you qualified to earn this badge?*

 **SAVE**

 **SUBMIT**

 **CANCEL**

## Make your case and earn this badge

Now that your goal is in sight, provide evidence to let us know why you're qualified for this badge. Select a criteria, and then associate work from your portfolio with each. Be sure to articulate your choices as necessary.



### Lead Belay Badge

Prove that you're okay with falling off a wall. Also don't be a bro.

#1

### Associate work for this criteria

Rope management 101. Be able to read how much rope is in the current system.

#### SEARCH YOUR EXPERIENCES & WORK



##### EXPERIENCES



Crack climber

##### WORK



Incredible hand crack



Timelapse vid

X CANCEL

✓ SAVE IT

#1

Rope man  
Be able to  
much rope  
current sy

+ ADD V

#2

Don't deck your climber.  
Break hand down!

+ ADD WORK

### Nothing to see here

Get started associating work and experiences with that big green button to the left there.

## Make your case and earn this badge

Now that your goal is in sight, provide evidence to let us know why you're qualified for this badge. Select a criteria, and then associate work from your portfolio with each. Be sure to articulate your choices as necessary.



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Essay on bouldering



## Education and Outreach ✕



Remove this  
Badge

### Issuer Details

Name — UC Davis Badges TEST  
URL — <http://asi.ucdavis.edu>

### Badge Details

Name — Education and Outreach  
Description — involving communication, organization and curriculum development skills  
Criteria — <http://badges.azurewebsites.net/Public/Criteria/0fe863a3-3397-4f48-abdf-a24201154aba>  
Evidence — <http://badges.azurewebsites.net/Public/Badge/74f5bdca-7997-4286-9385-a2420116bd9d>  
Issued — Mon Sep 23 2013 09:55:38 GMT-0700 (PDT)