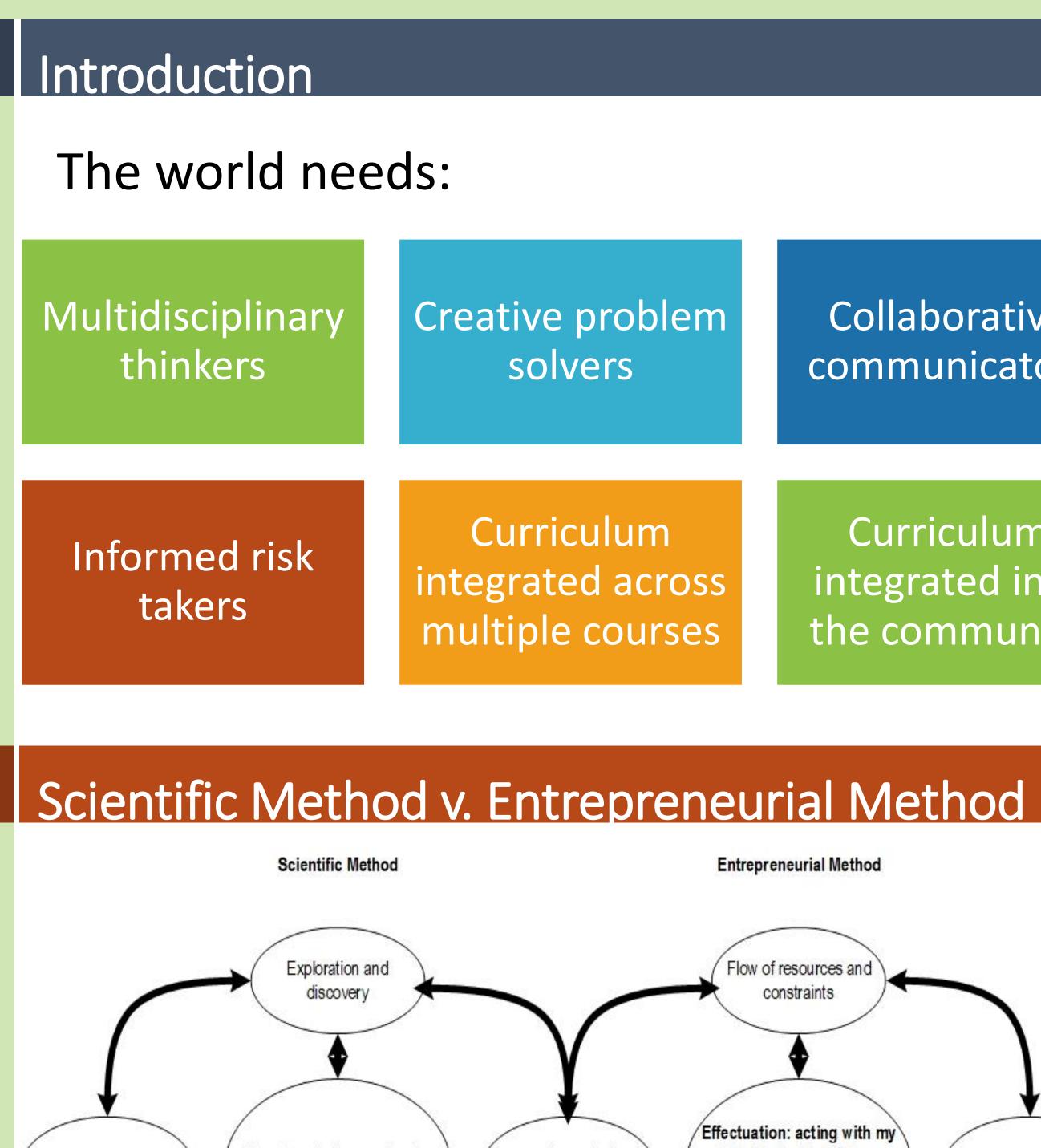
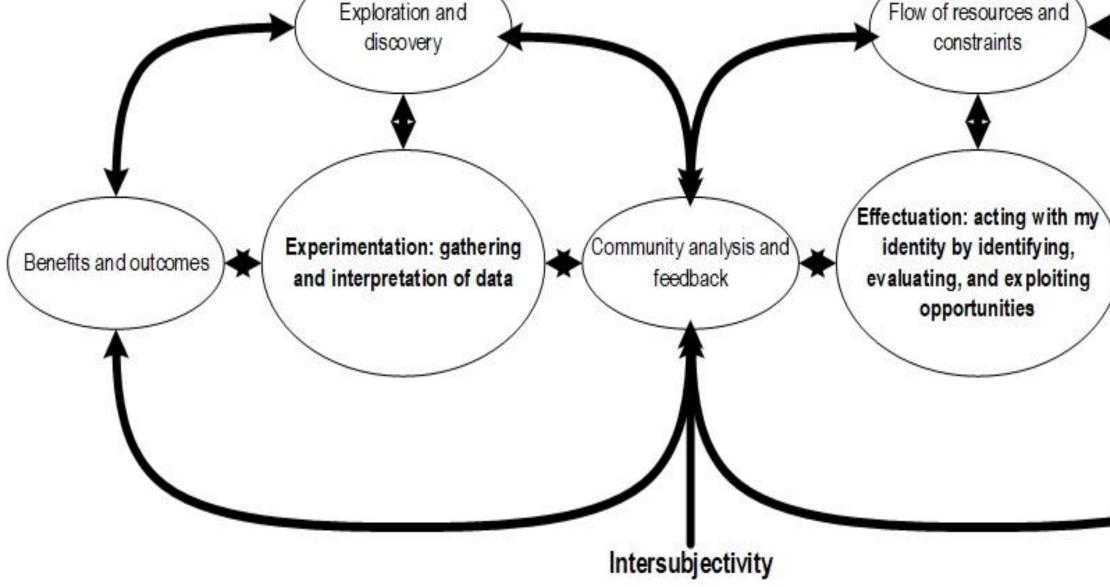
# Integrating the Entrepreneurial Method in Community College Farm & Ranch Management Coursework

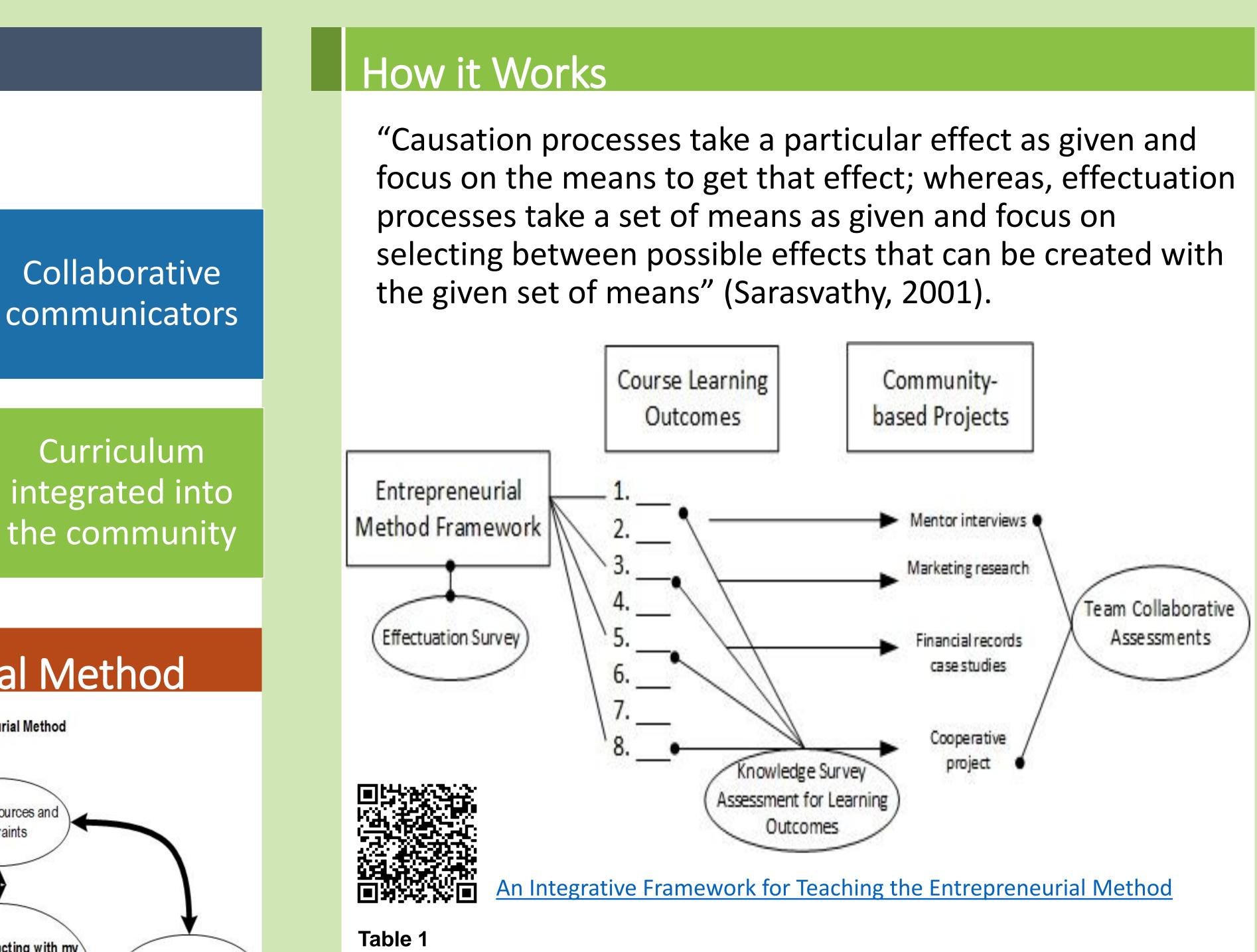




Students in Action: Marshmallow Towers



### Rosemary McBride, Faculty, Laramie County Community College



Description of Sample from Population of Interest

	Sample Size			Gender				Age					
	Ν	n	%	Male	%	Female	%	<21	%	>=21	%		
Class of	17	9	52	4	44	5	56	8	94	1	11		
2018													
Class of	19	14	74	6	43	8	57	12	86	2	14		
2019													
Class of	24	15	63	5	33	10	66	12	83	3	20		
2020													
Total	60	38	63	15	39	23	61	32	84	6	16		

# **Results: Student Collaboration**

There was a statistically significant difference between groups as determined by one-way ANOVA between year prior to integration and after integration of entrepreneurial method in favor of the students' support of collaboration.

### Table 3

Benefits and outcomes

Means, Standard Deviations, and One-Way Analyses of Variance in Student Responses to Collaboration Survey in Two Different Course Design Frameworks

	Baseline		Integrated Entrepreneurship					
<b>Collaboration Survey Questions</b>	Μ	SD	Μ	SD	р	t	df	Effect Size (d)
Collaborative learning is an important skill and behavior to develop for workforce readiness. **	4.00	.50	4.75	.44	<.001	-4.05	27	-1.59
I feel part of a learning community in my Ag classes. **	3.89	.60	4.80	.41	<.001	-4.78	27	-1.77
I was able to develop new skills and knowledge from other members of my group. *	3.22	.83	4.25	.91	.008	-2.88	27	-1.18
I was able to develop problem-solving skills through peer collaboration. **	3.44	.73	4.55	.69	.001	-3.94	27	-1.56
Collaborative learning in my group was effective.	3.56	.53	3.90	1.12	.390	87	27	-0.78
Collaborative learning in my group was time-consuming. *	3.22	.67	4.00	.80	.017	-2.55	27	-1.06

# Results: Knowledge Survey Assessment

A paired-samples t-test was conducted to compare presemester and post-semester assessment of knowledge in course outcomes. There was a significant (difference in the scores for pre & post conditions; *p* <.05.

### Table 2

Management Course Content Outcomes

	Pr	etest	Pos	ttest				
Knowledge survey outcome	Μ	SD	Μ	SD	р	t	df	Effect Size (d)
Item 1: I can develop a mission and vision statement for my future farm or ranch. **	1.04	.637	1.54	.508	.001	-3.81	27	-0.87
Item 2: I can identify what definition best describes the function of marketing.	.96	.508	1.21	.418	.050	-2.05	27	-0.54
Item 3: I can analyze, plan, implement, and control a management challenge. *	1.07	.781	1.48	.643	.031	-2.28	26	-0.57
Item 4: Using the corn enterprise budget, I can determine what is their expected profit per acre. *	1.00	.816	1.46	.576	.017	-2.56	27	-0.65
Item 5: I can identify the forecasting time horizon that would typically be easiest to predict. *	.68	.772	1.25	.701	.011	-2.74	27	-0.77
Item 6: I can identify marketing strategies that provide the least protection against a decline in selling prices before they are ready to deliver the commodity. **	.79	.738	1.29	.600	.002	-3.33	27	-0.74
Item 7: I can identify which type of farm business entity must file and pay income taxes separately from the personal tax returns of the owners. **	.43	.573	1.14	.705	.000	-4.03	27	-1.11
Item 8: I can analyze farm records for solvency. *	.63	.742	1.11	.751	.016	-2.57	26	-0.64
Item 9: I can create an organizational chart of a farm business. *	.68	.723	1.14	.591	.013	-2.66	27	-0.70
<i>Note:</i> Item scores corresponded to the student ranking of Students marked: 2, if they feel confident that they can determine the students marked the student the student the student the student student the student student the student student student the student				ll imm	nediat	olv: 1	if the	v feel th:

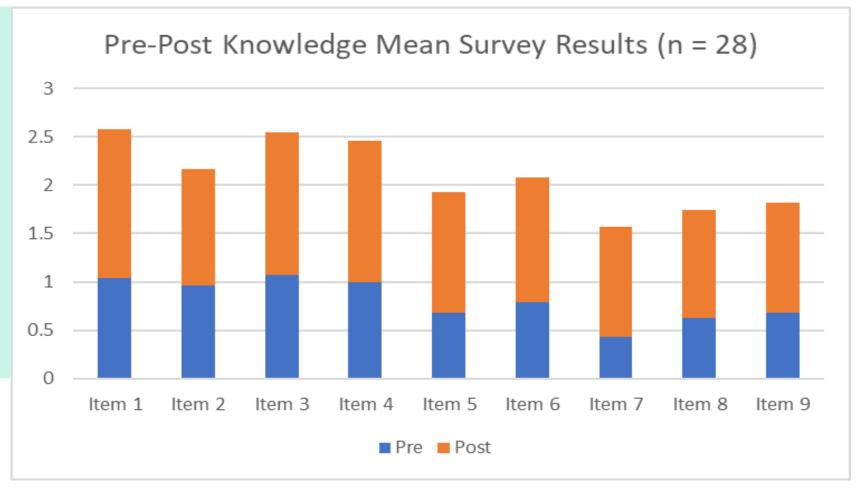
Students marked: 2, if they feel confident that they can do this extremely well immediately; 1, if they feel that they now have sufficient knowledge to provide a response that would be acceptable; 0, if they are not confident that they could deliver the quality of response that they feel, should be minimally acceptable. p < 0.05 indicated by \*, and p < 0.01 indicated by \*\*.

## Next Steps

- offerings
- projects







# Descriptive Statistics and t-test Results for Student Assessment of Confidence on

Extend community-based projects beyond the duration of the course

Support entrepreneurial ecosystems in rural communities in shorter duration course

Collaborate as a program with other postsecondary institutions on community-based