

HSU's HSI STEM – Four Components

Place-Based Learning Communities

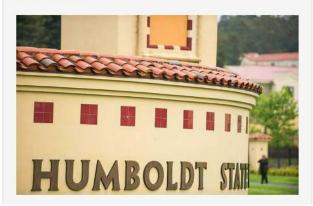


Reformed Math Instruction





New Pathways for Transfer Students





It works!

+0.16 grade points/course

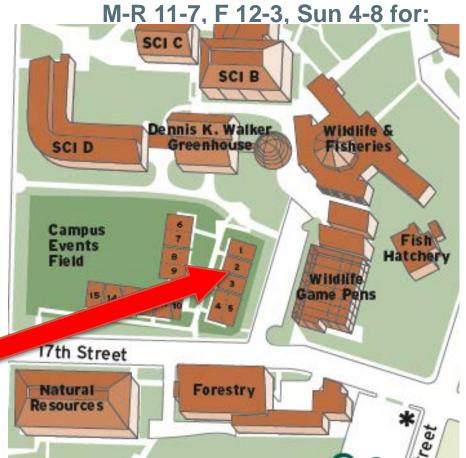
Remodel 1 use

+48% more hours

More students should use it

only 18% use it only 24% of Freshmen use it

Free drop-in tutoring
M-R 11-7 F 12-3 Sup 4-8 for



Campus Event Field #2 and #3

Steven Margell, HSI STEM Lead Evaluator



HSU's HSI STEM – Four Components

Place-Based Learning Communities



Reformed Math Instruction







Goals of the Transfer Pathways Program

- Connect with Partner CCC faculty, staff, students about HSU programs
 - Santa Rosa Jr. College, Reedley College, Palomar College
- Clarify course sequencing, pre-req requirements, impaction criteria
- Support transition to HSU, connect with resources, build community, connect major to career

Sarah Bacio, Transfer Coordinator

2018-2019 Transfer Pathways Activities

Fall 2018

Transfer Coordinator will visit each partner college

- Launch Transferring Webinar for each partner college
- 2018 Transfer Success Skill Shops
- Peer Mentoring for transfer students from partner colleges

Spring 2018

- Students from Partner Colleges visit HSU
 - Spring Preview
- Launch Transferring Presentation/Webinar for transfer students



HSU's HSI STEM – Four Components

Place-Based Learning Communities



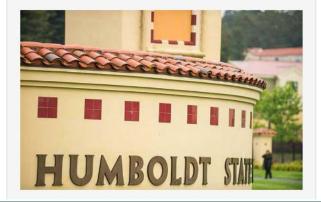
Reformed Math Instruction



Expanded Tutoring Services



New Pathways for Transfer Students



Three Math Reforms Piloted by HSI STEM

- Encourage ALEKS (20% 'moved up')
- Co-curricular Math

Old success rate - 3 previous AYs: 79% * 58% = 46%

Pilot success rate - Fall 2017 (*n*=97): 93% * 69% = 64%

- Math Assignments Integrated with PBLC themes Klamath Connection- Water Quality
 - Is Nitrogen the limiting factor in Klamath algal blooms?
 - **Rising Tides-Ocean Acidification**
 - How small changes in pH mean big changes for our oceans
 - Stars to Rocks-Climate Change
 - Carbon dioxide trends over time

Jeff Haag Dale Oliver Bori Mazzag Sonja Manor Mark Rizzardi

hhmi supporting

Faculty Trainings in Culturally Responsive Teaching Practices



90 HSU Faculty have received training in culturally responsive teaching (HSI focus)

- 74 Faculty attended AY'17/'18 Student Success Summits
- 16 faculty attended Faculty Summer Institute

Amy Sprowles, Project Director; Nicole Ryks, Inclusivity Coordinator



HSU's HSI STEM – Four Components

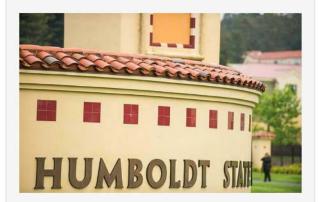


Reformed Math Instruction

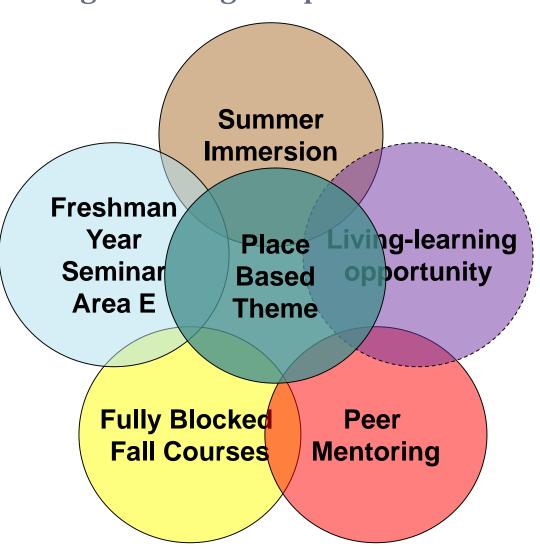




New Pathways for Transfer Students



CNRS Place-based Learning Communities (PBLCs) Integrate 5 High Impact Practices with a Place-Based Theme



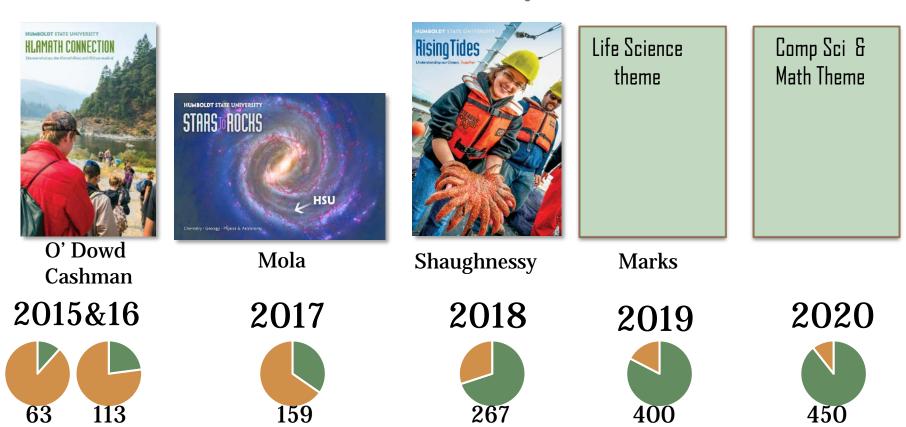
We use the term 'learning community' in its strictest sense — a curricular approach that intentionally links a cluster of courses around an interdisciplinary theme and enrolls a common cohort of students

Smith, B. L., MacGregor, J., Matthews, R., & Gabelnick, F. (2009).

Sommo, C., Mayer, A. K., Rudd, T., & Cullinan, D. (2012).

Growing

Available to all STEM Freshmen by 2020



Katlin Goldenberg, PBLC Director

Raven Palomera, Living Learning Coordinator; Lauren Enriquez, PBLC Cultural Coordinator

Belonging & Community

Skills & Attitudes

Academic achievement

Retention & Graduation

Belonging & community stronger in Klamath Connection PBLC than in matched reference group fall term (AY 15-16, 16-17, 17-18)

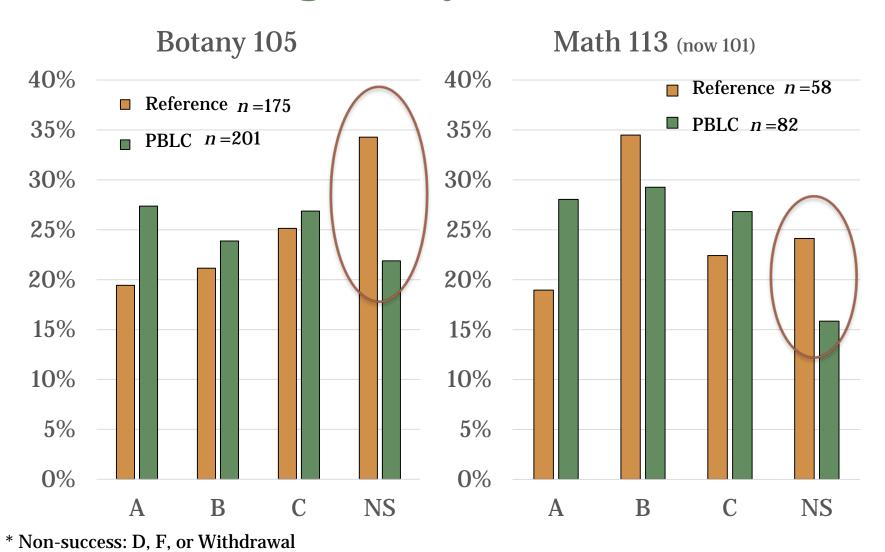


MapWorks Factor	Reference n = 174-220	Learning Community n = 176-203	t-test <i>P</i>
Commitment to the Institution	6.46	6.51	0.52
Peer Connections	4.95	5.62	<0.01
Homesickness: Separation	2.99	3.21	0.19
Homesickness: Distressed	5.07	5.34	0.16
Academic Integration	5.66	5.76	0.44
Social Integration	5.07	5.45	0.02
Satisfaction with Institution	5.55	5.98	<0.01
On-Campus Living: Social Aspects	4.54	5.20	<0.01
On-Campus Living: Environment	5.18	5.49	0.07
Campus Living: Roommate Relationship	5.32	5.80	0.03

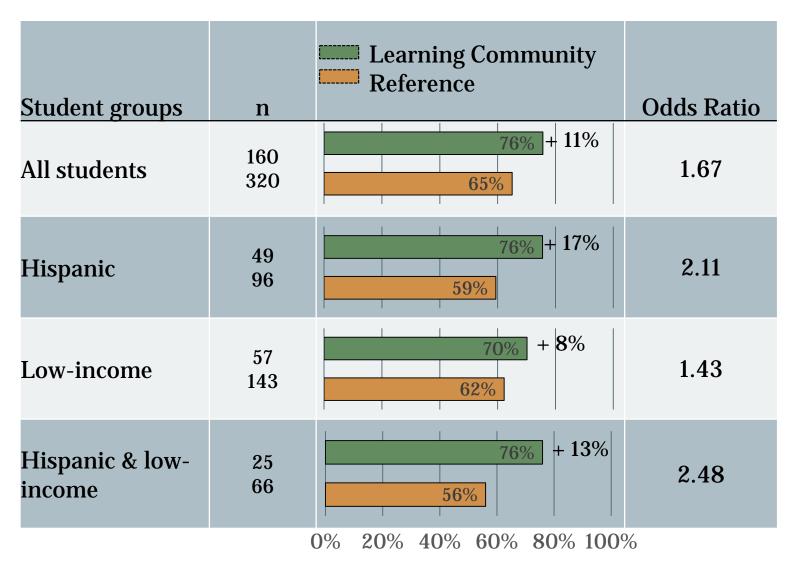
Klamath Connection PBLC (n = 250) vs. matched reference group (n = 451)

- More units earned toward degree (26.8 vs. 23.7)
- Slight increase in overall GPA (2.77 vs. 2.63)
- Improved pass rates in gateway courses
- Increased retention, esp. for Hispanic students

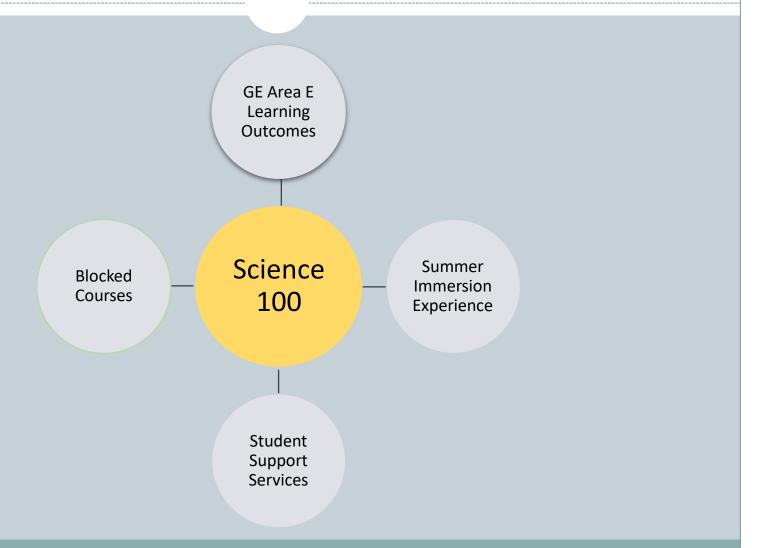
PBLC improved grades in gateway courses



PBLC increased <u>STEM Retention</u> especially for Hispanic students

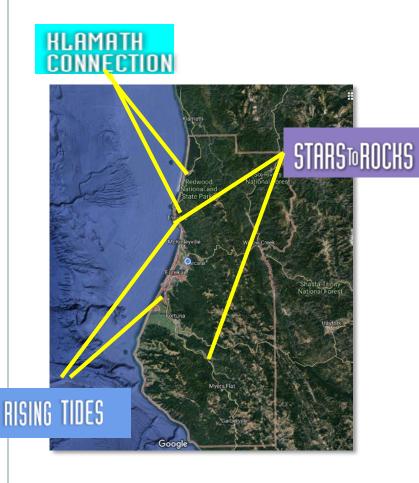


Fall Science 100 integrates all components of the PBLC



Summer Immersion

Fosters a sense belonging and connection to place, people, and academic discipline.













PBLC FYS Replaced by 3 unit LD GE Area E Science 100

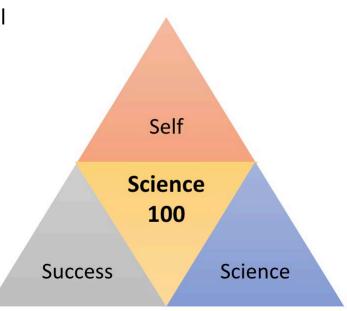
Fall '18, PBLCs are Klamath Connection, Stars to Rocks, and Rising Tides (more to come!)

- Each PBLC has its own Sci 100 course(s)
- Some Sci 100 curricula and materials shared across all PBLCs
- Some of the curricula are discipline specific
- The Sci 100 courses are designed around the following aspects:

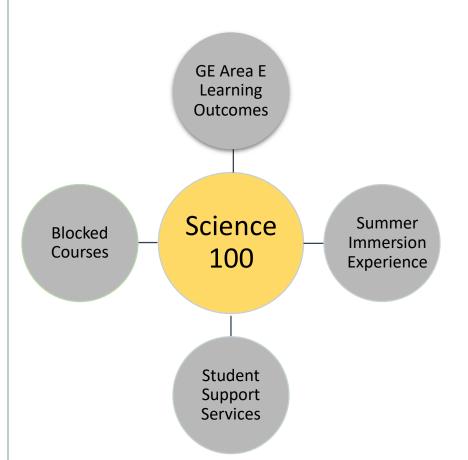
Self: mental, physical, financial, community, cultural

Success: study skills, time management, mindset, resilience, academic advising, career goals

Science: inquiry, integration, discipline specific readings, seminars, connection to department, professionals, poster presentation



Fall '18 Sci 100 integrates all components of the PBLC and serves as home base for students



Meets M/W/F

- M and F Large PBLC class (n~60)
- Wednesday small groups of students mentored by faculty (n~20)
- Focus on Science of Self, Success and Science

Links resources and builds unified curricula across all CNRS PBLCs.

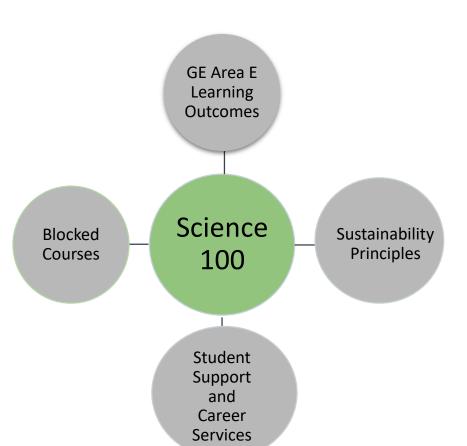
INRSEP CCAEs Skill Shops Learning Center SDRC Wellness

Financial Support Career Support Academic Support

Culminates with a CNRS PBLC-wide poster session with 240 student participants!



Spring '19 Sci 100 integrates sustainability principles, blocked classes, campus resources and serves as home base for students



Will be similar to Fall '18 PBLC

 Format and Focus on Self, Success and Science

Will differ from Fall '18 PBLC

- Clientele from all majors across CNRS Math/Computer Science Non-PBLC students
 Unsuccessful PBLC students
- Timing and Emphasis of Curricula
 Preparing to Launch into Year 2
 Career services
- Curricular focus
 Sustainability principles

Culminates with a CNRS PBLC-wide poster session with 206 student participants!

Everyone involved in Sci100 and PBLCs - please stand

Thank you!!