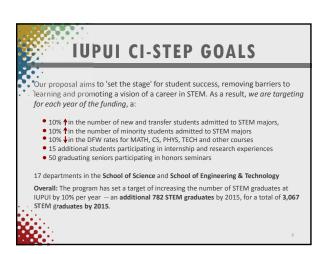
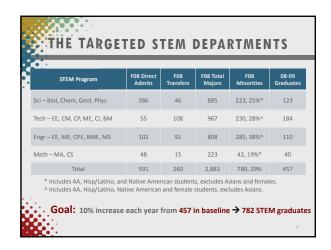
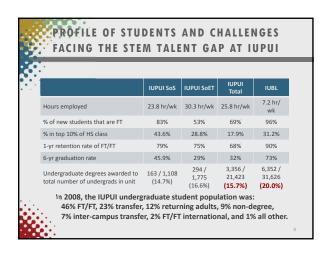


# National Science Foundation, awarded September 2010, \$1.99 M "STEP seeks to increase the number of students receiving associate or baccalaureate degrees in established or emerging fields within STEM." CI-STEP at IUPUI is creating a central Indiana pipeline to increase the number of students obtaining STEM degrees of all demographic groups who: (1) pursue STEM cademic and career pathways; (2) participate in STEM research, internships, and honors activities; (3) graduate with an undergraduate degree in STEM fields; and (4) transition into industry, graduate and professional programs. ".... STEP Type 1 activities should be aimed at adapting and implementing best practices that will lead to an increase in the number of students (U.S. citizens or permanent residents) obtaining STEM degrees."















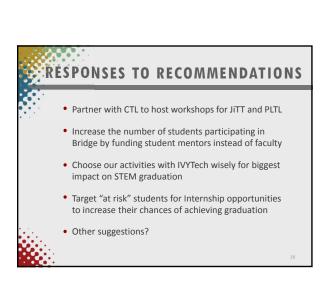




# PROGRESS REPORTING: MINI GRANTS AND OTHER ACTIVITIES Each mini grant recipient and other STEP funded activities will receive a progress report form to complete at the beginning of the Fall semester. 1. Please list the top 3 objectives of your mini-grant: 2. Please describe in detail, the progress that has been made to date: 3. Please list any preliminary results/conclusions/outcomes to date: 4. Please detail future plans regarding the mini-grant: 5. Please provide any supplemental materials that have been generated as they relate to the mini grant's efforts (i.e. pictures, handouts, fliers, website etc.). These can be attached to this document and listed here for accounting purposes. Suggestions for additional information to gather? Poster session at external board meeting in December to highlight each projects progress



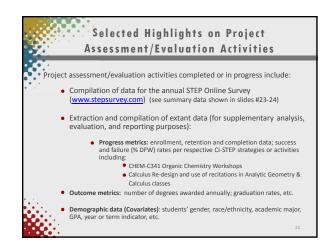
# Pocus on limited number of activities that will increase total number of BS/BA degrees by end of grant period. Focus on just a few pedagogical strategies that are best practices (JiTT, PLTL, etc.) and invite faculty to adopt - training can be provided by CTL. Increase the number of students in STEM related bridge, increasing the number per section if necessary. Use NSF money to experiment with size of sections - using more student mentors and fewer faculty. Limit pipeline activities to IVYTech – this has potential of providing the most total students. Use internship money to target students at risk of not completing degree, and opportunity will retain student to graduation (could be difficult sell for employers).



## TARGETED EFFORT FOR NEXT ROUND OF MINI GRANTS Identify areas of need that meets the mission of the grant (and our newly focused agenda) Hold workshop for invited individuals

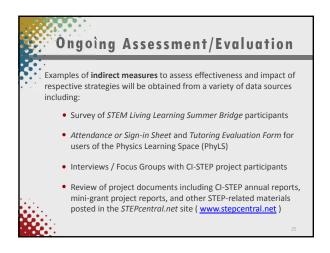
- Work with individual(s) to write proposal; including project/activity description, evaluation plan, budget and how the proposal helps meet the mission of the grant
- ASSESSMENT PROGRESS

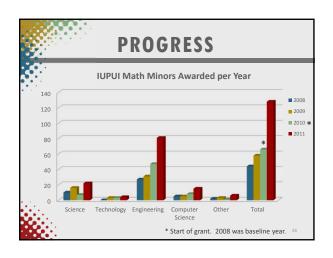
### PROJECT EVALUATION CI STEP Project: **Two-Phase Assessment Framework** Assessing Processes **Assessing Outcomes ☑** Questionnaires STEM Graduation Rates (by disciplines) ☑ Interviews Academic Performance (Scores, Grades, GPAs) Focus Groups **♦** Self-reported Learning Outcomes ♦ Program Participation/Completion Rates | ♦ Student Satisfaction ♦ Student Surveys ♦ Faculty/Mentor Satisfaction ♦ Faculty/Mentor Surveys ♦ Student Engagement Student Internships / Research Experiences **♦** Course Evaluations Advanced Studies Pursued in STEM fields **♦** Event Tracking ♦ Attendance / User Sign-up Sheets ♦ Career or Job Placements in STEM fields

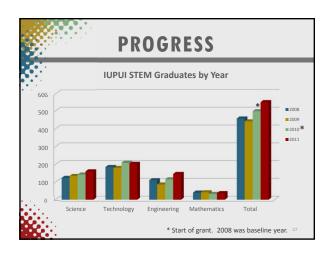


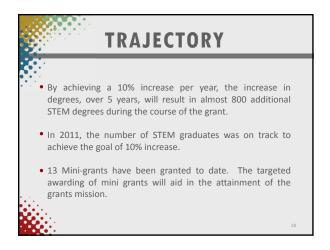
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CI-STEP					
Table 1. Student demog	ranhics: Academic mair	r hy ger	der*		
Table 1. Student demog	apines. Academic maje	n by ger	iuei		
STEP Reporting Period	Academic Majors	Male	Female	Gender Not Reported	Tota
July 1, 2009 - June 30, 2010	Agricultural Science	0	0	0	0
	Biological Science	188	349	0	537
	Chemistry	116	93	0	209
	Computer Science	560	132	0	692
	Engineering	1181	161	0	134
	Environmental Science	9	7	0	16
	Geosciences	8	6	0	14
	Mathematics	74	40	0	114
	Physics/Astronomy	24	4	0	28
July 1, 2010 - June 30, 2011	Agricultural Science	1	0	0	1
	Biological Science	221	366	0	587
	Chemistry	120	106	0	226
	Computer Science	555	142	0	697
	Engineering	1247	172	0	141
	Environmental Science	11	9	0	20
	Geosciences	12	12	0	24
	Mathematics	78	49	0	127
	Physics/Astronomy	30	5	0	35

- 0 (1)		Bachelor's Degrees Granted								
CI-STEP Table 2. Student demogra										
STEP Reporting Period	Academic Discipline	Male	Female	Gender Not Reported	Tot					
July 1, 2009 - June 30, 2010	Biological Science	24	64	0	88					
	Chemistry	21	16	0	37					
	Computer Science	70	21	0	9:					
	Engineering	190	14	0	20					
	Environmental Science	2	2	0	4					
	Geosciences	1	3	0	4					
	Mathematics	14	8	0	22					
	Physics/Astronomy	1	1	0	2					
July 1, 2010 - June 30, 2011	Biological Science	45	58	0	10					
	Chemistry	20	19	39	7					
	Computer Science	91	14	0	10					
	Engineering	185	29	0	21					
	Environmental Science	1	0	0	1					
	Geosciences	2	1	0	3					
	Mathematics	12	12	0	24					
	Physics/Astronomy	6	1	0	7					













## **DISCUSSION PROMPTS**

- What is preventing us from graduating more STEM students?
- Are we doing enough to see the change that PCAST is calling for (1 million additional STEM graduates over 10 years)?
- What are the benefits of timely graduation?

## DISCUSSION PROMPTS

- Are we helping our students reach graduation?
- Are you (and your colleagues) doing all you can to help IUPUI meet their mission of increasing graduation rates and reducing attrition?
- What efforts can you make to help contribute to the call for 1 million additional graduates? Do you have an idea that CI-STEP could help with?

## **DISCUSSION PROMPTS**

- What initiatives can be sustained after grant?
- Creation of a STEM Center, what should it look like?
- Is STEM a priority on campus?
- Can project take some credit for this at IUPUI?
- Are students/faculty/staff aware of funding source?
- Other ways to become even more student centered?
- What do you see as working best, and not working, thus far?

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