

Recommendations

Group 1	Group 2	Group 3
Provide resources to meet students where they are	Math – identifying gaps/improvements <u>before</u> college	Career services from matriculation throughout academic career
Theme houses/engage in outreach	Demystifying STEM	Proactive advising
Representative population of teachers	Case study model	Early warning grade reports
Ensure there are diverse teachers of excellence	Themes/ themed learning	Implementation of proven pedagogies that lead student success
Get the word out	Relevance <u>in college</u>	Mentoring programs
		Financial assistance
		Work opportunities on campus

COMMON THEMES FOR RECOMMENDATIONS:

1. Theme Houses and Themed Learning Environments and Outreach
2. Diverse, Representative Population of Excellent Teachers
2. Outreach and Get the Word Out
3. Provide Resources to Meet Students Where They Are Including:
 - a. career services from matriculation throughout academic career
 - b. proactive advising
 - c. mentoring programs
 - d. financial assistance

e. work opportunities on campus

f. early warning grade reports

4. Implementation of Proven Pedagogies Leading to Student Success Including:

a. Math gaps

b. Case Study Model

c. Relevant Curriculum that Demystifies STEM

Strategies

Group 1	Group 2	Group 3
Early undergraduate research	Experiential learning	Case studies, problem-based learning, simulations
Internships/co-ops	Mentoring by others internal/external	Internships and other experiential learning
Put students in leadership roles	Timely, real world projects	Co-curricular activities which provide leadership and teamwork opportunities
Service learning	Chances to develop independence	Bringing real world into classroom
International experience	Finding their own answers/responsibility	Research opportunities
	leadership	Helping students identify and apply their styles
	Experiential learning	

COMMON THEMES FOR STRATEGIES:

1. Undergraduate Research Opportunities

2. Leadership Opportunities Using a Variety of Methods

3. Experiential Learning via Internships and Co-Ops

4. Mentoring, Service Learning and International Experiences

Competencies

Group 1	Group 2	Group 3
Numeracy	Technical skills	Communicating professional ideas effectively
Ability to delete	Problem solving (questioning)	Thinking critically, analytically, creatively, globally
Communication with multiple audiences	Critical thinking (questioning)	Foundational knowledge in primary discipline
Understand and apply data	Work ethic	Ability to work in teams with a diverse group of people
Collaboration	Team work/working with others	Ability to grow and adopt to changing conditions personally and professionally
Professionalism	Service/customer service ethic	
integrity		

COMMON THEMES FOR COMPETENCIES:

1. Communicating Effectively with Multiple Audiences
2. Work Ethic, Service to Others, Professionalism and Integrity
3. Literacy, Numeracy and Technical Skill in a Discipline
4. Team Work, Adaptability and Collaboration
5. Critical Thinking Skills, Problem Solving and Creativity in a Global Setting

Strengths & Opportunities

Group 1	Group 2	Group 3
Current programs can be expanded (not created)	Personal development plan -reflective & international -where are you working & why?	Strong foundation at IUPUI in successful pedagogy, honors college themed learning communities, bridge, etc.
Location of IUPUI	A lot of support programs up & running	Room for growth in college attainment in Indiana
Proximity of IUPUI to IVY Tech	Summer course work – finish in 4 years	Focused strong campus leadership
Prestigious grant	Students have good work ethic	Strong ties with business and industrial community
Leverage local corporations (Colts)	Continuing education for faculty to recognize struggling students	Collaboration between science and engineering/technology
Distance learning	Business community recognizes “R.I.S.E” -“confirm” value of RISE	Pipeline from local high schools and community college
	Engage parents	Biomedical emphasis in Indiana
	Help students bring work experience to classroom	
	Strong career services	
	Retention specialist – e.g.	

COMMON THEMSE IN STRENGTHS AND OPPORTUNITIES:

1. Location, Location, Location!
2. Strong Foundation at IUPUI in Areas Including Pedagogy, Themed Learning Communities, Bridge Programs, Career Services, Distance Learning, Campus Leadership, Etc.

3. Positive Ties With Business and Industry

4. Prestigious Grant with Collaboration Between Schools of Science and ET with LOTS of Room for Growth in STEP

5. Good Time to Develop Personal/Professional Plans for STEM Students and Let Faculty Know about Ways to Assist STEM Students to Degree Completion

Weaknesses & Threats

Group 1	Group 2	Group 3
Incoming student abilities	How does business & community access students	Economic issues for students
Newness of community college system	Central office to disseminate into to local community e.g. matchmaking	Lack of culture of education in state of Indiana
Not a residential campus	Student participation low	Lack of high profile STEM related industry in Indiana
Years to graduation	High tech experience is tough to attain -limited audience	Poor math competency of Indiana k-12 students
Student work requirements (too many hours/week)	Risk for success factors more dominant in underrepresented students	Mismatched of students expectations of college and reality
	Resources are limited	Faculty resistance to change
	Student finances (personal finance)	

COMMON THEMES IN WEAKNESSES AND THREATS:

1. Lack of Student Finances and Work Requirements
2. Student Preparedness, Expectations and Participation May Be Low
3. Lack of Participation by Business, Industry and Community and Lack of High Profile STEM Industry in Indiana
4. Faculty Resistance to Change and Risk Factors Apparent for Underrepresented Students