Overarching Goal of Math Pathways

Remove Stumbling Blocks
Articulate Math Requirements
Contextualize Learning

Alternative Math Pathways

Increase College Completion
Math Pathways Taskforce Recommendations

September 2015
Co-Chair John Lund, Montana State University-Bozeman

1. Provide clear options for non-STEM students in developmental math courses

2. Develop alternative non-STEM pathways for college-level, quantitative reasoning core math courses

3. Strengthen advising processes for math

4. Re-assess math requirements for non-STEM Majors
1. Provide clear options for non-STEM students in developmental math courses

Progression of Students Placed into M095, M096, M097, or M098
Fall 2009 – Spring 2015

**STEM**
- Placed into Dev Math: 3501
- Continued to College Math: 1578
- 8.6% Success: 300

**Non-STEM**
- Placed into Dev Math: 8925
- Continued to College Math: 3372
- Earned a Degree: 869
- 9.7% Success

= 300 Students
2. Develop alternative non-STEM pathways for college-level, quantitative reasoning core math courses

M121 Non-STEM Pass Rate
Fall 2009 - Spring 2015

Two-Year Institutions
n = 4374

- Pass: 53%
- Not Pass: 47%

Four-Year Institutions
n = 7284

- Pass: 56%
- Not Pass: 44%
3. Strengthen Advising Processes for Math

M121 AS A TERMINAL COURSE
FALL 2009 – SPRING 2015

<table>
<thead>
<tr>
<th></th>
<th>STEM</th>
<th>Non-STEM</th>
<th>Total</th>
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<tbody>
<tr>
<td>Terminal</td>
<td>3696</td>
<td>6329</td>
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<tr>
<td>Non-Terminal</td>
<td>2769</td>
<td>3832</td>
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</tbody>
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4. Re-assess Math Requirements for Non-STEM Majors

Math 121 enrollment by major clusters:
Fall 2009 – Spring 2015
n = 16,626
Math Pathways Taskforce

John Lund, Montana State University – Co-Chair
Rich Rehberger, Gallatin College – Co-Chair
Alicia Heckel, University of Montana – Facilitator
John Cech, Montana University System – Ex-officio Liaison
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