THE OLD WAY TO NAVIGATE MATH AT OUR COMMUNITY COLLEGE

MATH 044
Last offered Fall 2009
if a student does not pass 044
they need to take M015

MATH 050
Last offered Spring 2010

MATH 111
Last offered Spring 2011

MATH 080
leads to M118
Last offered Spring 2010

MATH 035
First offered Summer 2010
Need A35 test in A66 test out
'C' allows to M121...M141

MATH 015
First offered Spring 2010
Need P22 test in A35 test out
C allows to M015 or 023 or 018

MATH 023
First offered Summer 2010
Need A35 test score
to test into M118

MATH 044
M040 and M044 last
offered Fall 2009

R. Jeffs, Ivy Tech Community College-Muncie,
(765) 749-8630

NEW ASA Math Sequence ‘Content Mapping’
### Courses Students Enrolled Fall 2011 with 20 Credits or More Have Attempted

<table>
<thead>
<tr>
<th>Course</th>
<th>Enrolled</th>
<th>Course</th>
<th>Enrolled</th>
<th>Course</th>
<th>Enrolled</th>
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<tbody>
<tr>
<td>NONE</td>
<td>349</td>
<td>MATH015</td>
<td>122</td>
<td>MATH107</td>
<td>10</td>
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<tr>
<td>MATH023</td>
<td>63</td>
<td>MATH110</td>
<td>2</td>
<td>MATH200</td>
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<td>MATH035</td>
<td>72</td>
<td>MATH111</td>
<td>708</td>
<td>MATH201</td>
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<td>MATH040</td>
<td>21</td>
<td>MATH112</td>
<td>35</td>
<td>MATH211</td>
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<td>MATH043</td>
<td>32</td>
<td>MATH115</td>
<td>7</td>
<td></td>
<td>12</td>
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<tr>
<td>MATH044</td>
<td>289</td>
<td>MATH118</td>
<td>605</td>
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<tr>
<td>MATH050</td>
<td>1,078</td>
<td>MATH121</td>
<td>35</td>
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<td>MATH080</td>
<td>27</td>
<td>MATH131</td>
<td>14</td>
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<tr>
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<td>1,704</td>
<td>MATH132</td>
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<td>MATH133</td>
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<td>MATH135</td>
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<td>MATH136</td>
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<td></td>
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<td>MATH137</td>
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<td>1,687</td>
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<table>
<thead>
<tr>
<th>Attempted</th>
<th>HC</th>
<th>% Group</th>
<th>% Enrolled*</th>
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<tbody>
<tr>
<td>=&gt;20 and &lt;30</td>
<td>1,062</td>
<td>28.3%</td>
<td>12.1%</td>
</tr>
<tr>
<td>=&gt;30 and &lt;40</td>
<td>715</td>
<td>19.1%</td>
<td>8.1%</td>
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<td>40 and Greater</td>
<td>1,975</td>
<td>52.6%</td>
<td>22.5%</td>
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<tr>
<td>Total</td>
<td>3,752</td>
<td>100.0%</td>
<td>42.7%</td>
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* n = 8,793
Changing From Pre to Co-Req Model

<table>
<thead>
<tr>
<th>DEVELOPMENTAL COURSES</th>
<th>TOTAL SECTIONS IN SYSTEM</th>
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<tbody>
<tr>
<td>MATH015</td>
<td>426</td>
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<tr>
<td>MATH023</td>
<td>308</td>
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</table>

<table>
<thead>
<tr>
<th>GATEWAY COURSES</th>
<th>TOTAL SECTIONS IN SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH118 (to be 123-QR)</td>
<td>675</td>
</tr>
<tr>
<td>NEW 118 (to be 123-QR)</td>
<td>426</td>
</tr>
</tbody>
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TOTAL GATEWAY NEEDED 1101

R. Jeffs, Ivy Tech Community College-Muncie, (765) 749-8630
COMPLETE COLLEGE AMERICA (CCA) DEFINITION

• “enrolling developmental education students in remedial and college-level courses in the same subject at the same time.

• Students receive targeted support to help boost their understanding and learning of the college-level course material.”
Co-requisite means that two courses are offered in the same semester and through the deliberate, coordinated efforts of the faculty, the sequence, objectives, and assessments are linked to enhance student success.
Course Scheduling and Delivery

- The pair of courses, Math 080 and 123, is offered in the following formats. In each case faculty work in a team. They communicate between meetings to fine tune curriculum, evaluate student success and focus instruction.

- Fall and Winter Days- The courses are scheduled to meet twice a week with Math 080 scheduled immediately before or after the Math 123 course.

- Fall and Winter Nights- The courses are scheduled to meet once a week with Math 080 scheduled earlier in the week than the Math 123 course.

Regions that scheduled sections for both classes on two nights perceived that they penalized students not in the co-req making them come two nights a week for one class and losing the opportunity to enroll in another program course.
Course Scheduling and Delivery

• Summer Days- During an 8 week summer session, Math 080 is scheduled to meet on Monday and Wednesday with Math 123 offered on Tuesday and Thursday. All four class meetings start and finish at the same time on each day.

• Summer Nights- The co-req has not been offered on summer nights because it would require 3 or 4 nights a week. Students have not embraced attending that many nights a week.
Course Scheduling and Delivery

• Online- Because success in online courses has not been evidenced for 000 level courses the co-req does not have an online option.
Section Numbers

Currently there are three section numbers associated with a single co-req pair. They are:

Math 080 61f    The co-req section with a cap of 15 students
Math 123 61f    The remediation gateway course with a cap of 15 students
Math 123 10f    The regular gateway section with a cap of 15 students

The two 61f sections above have the same 15 students. A student cannot enroll in one without the other.

The 10f section will allow students that have the pre-requisite or Accuplacer score to enroll. Regions may set the number of students in the Math 118 regular section.

At this time we are manually combining the 61f and 10f sections just before classes start and are seeking an automatic way for this step.
Faculty

• Faculty teaching the gateway course are required to be SLAS Mathematics credentialed.

• The faculty teaching the Math 080 course may be an developmental math credentialed and experienced person.

• When scheduling the instructors consideration should be made to allow the paired instructors meeting time and the ability to visit each other's classes.
Faculty Development

• To enhance the success of students, faculty will be afforded professional development opportunities that will include:
  • Team building for the paired faculty,
  • Content knowledge,
  • Technology, and
  • Pedagogy

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Students Registration

• If students do not meet the 100 level assessment or pre-requisite and qualify for the co-req options, they must enroll in both the 000 and 100 level class.

• If they drop a zero level course, they are no longer eligible to remain enrolled in the college level course.
**Staff Development**

- Staff in student services and in supporting areas to understand the significance of this project students and the College will receive professional development that will include changes in:
  - Computer
  - Advising policies,
  - Curriculum, and
  - Pedagogy.
• The corequisite course should support and coordinate with the college level gateway course to provide “just in time” remediation.

• The gateway level course should provide students with the same experience as non-co-requisite sections of the same course.

• The gateway course should maintain the same depth, rigor, and expectations as all other sections of that course.

• Pacing of the course particularly for topics that require mastery of prerequisite skills and calendar adjustments should be made by participating faculty to allow time to remediate these skills.
Textbook

• There is only one textbook used by the coreq and gateway course.
• If it is used there is only one MyMathLab code required.
Pedagogy

• Demonstrations and group projects provide the content in the gateway course.

• Faculty in the coreq course respond to student questions, remediate weaknesses, guide social learning.
  • Questions answered
  • Multiple representations
  • Self corrections of tests
  • Immediate feedback