Math Department Placement and Curriculum Changes

March 2015
Revised: March 26, 2015
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Changes in ALEKS Math Placement

- Updated Cut Scores—Effective Fall 2015

- Changes made after review of Fall 2014 course grades compared to math placement
### DFW Rates for MATH Courses Fall 2014

<table>
<thead>
<tr>
<th>MATH Course</th>
<th>%DFW*</th>
<th>Total Grade Count* (N)</th>
<th>MATH Course</th>
<th>%DFW*</th>
<th>Total Grade Count* (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>00100</td>
<td>42.8%</td>
<td>516</td>
<td>00100</td>
<td>26.3%</td>
<td>1078</td>
</tr>
<tr>
<td>11000</td>
<td>31.6%</td>
<td>632</td>
<td>11000</td>
<td>21.1%</td>
<td>613</td>
</tr>
<tr>
<td>11100</td>
<td>40.8%</td>
<td>911</td>
<td>11100</td>
<td>24.4%</td>
<td>933</td>
</tr>
<tr>
<td>M-118</td>
<td>23.4%</td>
<td>1265</td>
<td>M-118</td>
<td>29.1%</td>
<td>967</td>
</tr>
<tr>
<td>M-119</td>
<td>26.5%</td>
<td>520</td>
<td>M-119</td>
<td>23.9%</td>
<td>418</td>
</tr>
<tr>
<td>15300</td>
<td>34.0%</td>
<td>754</td>
<td>15300</td>
<td>33.1%</td>
<td>524</td>
</tr>
<tr>
<td>15400</td>
<td>39.6%</td>
<td>328</td>
<td>15400</td>
<td>32.5%</td>
<td>332</td>
</tr>
<tr>
<td>15900</td>
<td>24.9%</td>
<td>189</td>
<td>15900</td>
<td>23.8%</td>
<td>147</td>
</tr>
<tr>
<td>16500</td>
<td>33.5%</td>
<td>445</td>
<td>16500</td>
<td>32.6%</td>
<td>414</td>
</tr>
<tr>
<td>16600</td>
<td>34.1%</td>
<td>243</td>
<td>16600</td>
<td>35.2%</td>
<td>222</td>
</tr>
<tr>
<td>17100</td>
<td>28.4%</td>
<td>321</td>
<td>17100</td>
<td>28.1%</td>
<td>267</td>
</tr>
<tr>
<td>22100</td>
<td>31.7%</td>
<td>79</td>
<td>22100</td>
<td>23.3%</td>
<td>73</td>
</tr>
<tr>
<td>22200</td>
<td>48.1%</td>
<td>52</td>
<td>22200</td>
<td>43.6%</td>
<td>55</td>
</tr>
<tr>
<td>23100</td>
<td>16.9%</td>
<td>147</td>
<td>23100</td>
<td>21.2%</td>
<td>128</td>
</tr>
<tr>
<td>23200</td>
<td>4.1%</td>
<td>49</td>
<td>23200</td>
<td>18.2%</td>
<td>33</td>
</tr>
</tbody>
</table>

*Note:
"%DFW" rate based on students with D(+-), F, FX, and W grades
Total grade count only excludes students with special grade codes of 'I', 'NC', 'P', 'R', 'S', and 'ZZ'.
# Updated Placement Chart for New Students

<table>
<thead>
<tr>
<th>MA700 Score (%)</th>
<th>Score Range (%)</th>
<th>Course Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 14</td>
<td>0–13</td>
<td>Too low for IUPUI mathematics course. Student is recommended to access and utilize the ALEKS learning modules and retest if able. <em>If intensive mathematics review is necessary, connect with a community Adult Basic Education program for assistance. Otherwise, student is encouraged to retest if possible. MATH 00100 is an option for students registering for Summer 2015 only.</em></td>
</tr>
<tr>
<td>≥ 14</td>
<td>14–24</td>
<td>Too low for IUPUI mathematics course. Student is recommended to access and utilize the ALEKS learning modules and retest if able. <em>If an intensive review of Algebra I is necessary, student is encouraged to take MATH 023 at Ivy Tech. Otherwise, student is encouraged to retest if possible. MATH 00100 is an option for students registering for Summer 2015 only.</em></td>
</tr>
<tr>
<td>≥ 25</td>
<td>25–49</td>
<td>MATH 11000 <em>This placement is only valid for Fall 2015 registration and beyond. Students registering Summer 2015 with a score of 25–29 should enroll in MATH 00100. Students registering Summer 2015 with a score of 30–49 may enroll in MATH 11000. Effective Fall 2015, MATH 11000 may be used as a prerequisite for MATH 11100 as needed.</em></td>
</tr>
<tr>
<td>≥ 35</td>
<td>35–49</td>
<td>MATH 11100</td>
</tr>
<tr>
<td>≥ 50</td>
<td>50–64</td>
<td>MATH 15300/M118/M119/13000/13600, STAT 30100 or MATH11000/11100</td>
</tr>
<tr>
<td>≥ 65</td>
<td>65–79</td>
<td>MATH 15900/15300/M118/M119/13000/13600, STAT 30100 or MATH11000/11100</td>
</tr>
<tr>
<td>≥ 80</td>
<td>80–100</td>
<td>MATH 16500/22100/23100/17100/M118/M119/13000/13600, STAT 30100 or MATH 11000/11100/15300/15900</td>
</tr>
</tbody>
</table>
Students Testing Below MATH 11000

- Communication – working with Admissions
- Encourage students to practice learning modules and retest
- After 5 test attempts, refer students as appropriate
For students starting in MATH 023 at Ivy Tech:

MATH 023 (3cr)
Essentials of Algebra
Ivy Tech

MATH 100 (3cr)
Intermediate Algebra
Ivy Tech

MATH 11000 (4cr)
Fundamentals of Algebra
IUPUI

MATH 11100 (4cr)
Algebra
IUPUI

MATH-M 118, MATH-M 119, MATH 13000, MATH 13600, STAT 30100
IUPUI

MATH 15300, MATH-M 118, MATH-M 119, MATH 13000, MATH 13600, STAT 30100
IUPUI
For students testing into MATH 11000 at IUPUI and needing to take Precalculus and beyond:

- **MATH 11000 (4cr)**
  Fundamentals of Algebra

- **MATH 11100 (4cr)**
  Algebra

- **MATH 15300 (3cr)**
  Algebra & Trigonometry I

- **MATH 15400 (3cr)**
  Algebra & Trigonometry II

- **MATH 15900 (5cr)**
  Precalculus
  (only if grade of "B" or better earned in MATH 11100)
Changes to MATH Curriculum

MATH 11000

- Effective Fall 2015, will become stretch course for preparation into MATH M118, M119, 13000s, and STAT 30100

- Break-down:
  - 25% Intro to Algebra concepts (11 of 45 days) (1/4th of old MATH 00100 course)
  - 50% Intermediate Algebra concepts (20 of 45 days) (1/2 of old MATH 11000)
  - 25% College Level concepts (14 of 45 days) (1 chapter each of M118 and M119)

- Starting Fall 2015, MATH 11000 (as well as MATH 11100) can be used for general (free) electives in the 120 credits for a bachelors degree at IUPUI, provided the faculty of the department and school awarding the degree approves this course for their degree.
Changes to MATH Curriculum

- **MATH 00100**
  - Last offering: Summer Session I, 2015
  - No registration block – no placement or prerequisite required
  - Students needing a review of Intro to Alg starting Fall 2015 will need to take MATH 023 at Ivy Tech
  - Possible FYE Pilot
Take Aways

- Use math placement chart based on semester of registration (rather than admission)

- Encourage students needing MATH 00100 to take it Summer Session I, 2015

- Encourage students testing below MATH 11000 to continue using learning modules and retest up to 4 times
Questions?

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