Guidelines for Interpreting COMPASS Math Scores

Earlham utilizes the ACT Computer-Adaptive Placement Assessment and Support System (COMPASS) to assess students' basic math and algebra skills. The test is adaptive and automatically routes students through the algebra domain. The algebra score is on a scale from 0-100.

Advisers and students will view COMPASS scores using Earlham’s Self-Service. Advisers are encouraged to use the COMPASS scores as an advising aid, not as a hard, fast rule. Students will receive a copy of the recommendations below after their assessment.

Based on previous experience, we have recommendations for the students who are interested in the following courses:

CHEM 111: Principles of Chemistry (Fall Semester)
CS 128: Programming and Problem Solving (Fall Semester)
ECON 100: Introduction To Macroeconomics [INST 100, MGMT 100, PAGS 100]
ECON 204: Statistics for Economics [MGMT 204]
MATH 120: Elementary Statistics [MGMT 120]
MATH 180: Calculus A
MATH 280: Calculus B
PHYS 120: General Physics I (Fall Semester)
PHYS 125: Analytical Physics I (Fall Semester)

To strengthen areas of weakness indicated by students’ COMPASS scores, Earlham offers two refresher courses: MATH 110 – Fundamental of Mathematics and MATH 151 – Functions (course descriptions are below).

<table>
<thead>
<tr>
<th>COMPASS Scores</th>
<th>Score</th>
<th>Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra</td>
<td>0-45</td>
<td>MATH 110</td>
</tr>
<tr>
<td></td>
<td>46-59</td>
<td>MATH 151</td>
</tr>
<tr>
<td></td>
<td>60-70</td>
<td>Discussion Zone: Students might have the necessary mathematical skills to successfully complete the above listed courses except Calculus A and B. Alternatively, they might want to enroll in MATH 151.</td>
</tr>
<tr>
<td></td>
<td>71-100</td>
<td>Students are likely prepared for Calculus A and B.</td>
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</tbody>
</table>

**MATH 110: Fundamentals of Mathematics**

This course is an overview of the major areas of foundational mathematics. Topics will be drawn from number theory and arithmetic, algebra, geometry, trigonometry, statistics, probability and probability distributions, and will culminate in a preview of calculus. Geared for students who desire knowledge of a variety of mathematical areas or want to broaden their mathematical experiences. Common student motivations have been preparation for later coursework, for review for the GRE, and teacher preparation. Open to all students. No textbook will be required for this course; the fee is for needed materials. 3.000 Credit hours

**Math 151: Functions**

This course is an overview of the major areas of foundational mathematics. Topics will be drawn from number theory and arithmetic, algebra, geometry, trigonometry, statistics, probability and probability distributions, and will culminate in a preview of calculus. Geared for students who desire knowledge of a variety of mathematical areas or want to broaden their mathematical experiences. Common student motivations have been preparation for later coursework, for review for the GRE, and teacher preparation. Open to all students. No textbook will be required for this course; the fee is for needed materials. 3.000 Credit hours