<table>
<thead>
<tr>
<th>Preparedness Level</th>
<th>Indicators</th>
<th>Marginaly Prepared for Calculus</th>
<th>Prepared for Calculus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finite Math (IUPUC: M118; Ivy Tech: 138)</td>
<td>Calculus AB/BC</td>
<td>10 credits college bound level math including 2 credits AP/ACP w/o repeating a course</td>
<td></td>
</tr>
<tr>
<td>College Algebra (IUPUC: M153; Ivy Tech: 136)</td>
<td>Calculus AB/BC</td>
<td>10 credits college bound level math including 2 credits AP/ACP w/o repeating a course</td>
<td></td>
</tr>
<tr>
<td>Standardized Test Scores (AP, ACT, SAT other)</td>
<td>SAT composite score: 1200+</td>
<td>SAT composite score: 1200+</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACT composite score: 30+</td>
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</tr>
<tr>
<td></td>
<td>SAT composite score: 800-999</td>
<td>SAT composite score: 1000-1199</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACT composite score: 20-25</td>
<td>ACT composite score: 26-30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PASS ECA Core 40</td>
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<td></td>
</tr>
</tbody>
</table>

### Readiness

**Confident Knowledge of:**
- Fractional operations calculator free
- Like Terms; polynomial operations
- Exponent rules
- Problem Solving

**Familiar with:**
- Venn Diagrams/Set Theory
- Combinations/permutations
- Calculate Mean and Variance
- $\sum$ symbol recognition
- Sequences and Series

**Confident Knowledge of:**
- Fractional operations calculator free
- Like Terms; polynomial operations
- Exponent rules
- Problem Solving

**Familiar with:**
- Simplifying radicals
- Logarithms
- Factoring
- $\sum$ symbol and use
- Sequences and Series

**Confident Knowledge of:**
- Fractional operations calculator free
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- Problem Solving

**Familiar with:**
- Simplifying radicals
- Logarithms
- Factoring
- Exponent Rules – basic operations
- Special Triangles
- Pythagorean Theorem
- Unit Circle Trigonometry
- Solving Equations
- Plane graphing
- Logarithmic
- Absolute Value
- Conics
- Exponential
- Logarithmic
- Quadratic
- Radical
- Cubic
- Rational – 1/x and 1/x²

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Academic Evidence of Post-Secondary College Readiness for Mathematics
Parents, students, educators and guidance counselors are encouraged to use the attached rubric (guideline) to help identify students who are ‘marginally prepared’ or ‘prepared’ for college credit bearing courses in mathematics upon entry to college immediately following high school graduation. Freshman college credit bearing courses in mathematics include Finite Mathematics, College Algebra (not to be confused with Algebra I or Algebra II taught in high school) and Calculus. The spirit of this rubric is to highlight ideal paths in mathematics at the high school level that ensure college readiness (i.e. to avoid remediation at the college level and therefore to reduce potential high costs to stakeholders).

The rubric cross compares:

- Preparedness Levels
  - Marginally Prepared
  - Prepared
- Indicators
  - Math Learning
  - Standardized Test Scores
  - Readiness

The ‘Marginally Prepared’ column identifies a student who is marginally prepared for Finite Math or College Algebra and may need remediation at the college level. The next column is subdivided to recognize two different college course paths. Students who are ‘prepared’ for Finite Math or College Algebra may only be ‘marginally prepared’ for Calculus. The last column identifies students who are prepared for Calculus.

The subdivided ‘Readiness’ row identifies topics in mathematics of which students should have ‘Confident Knowledge’ and also topics in mathematics of which students should be ‘Familiar’ by course path.