This report summarizes two-year progression for two accelerated math courses at El Camino College:

1) Basic Accelerated Mathematics (BAM) – Math-37
2) General Education Algebra (GEA) – Math-67

### Progression Tracking

Each BAM/GEA cohort was tracked for a two-year period (7 terms total) for the following cohort years.

- BAM – Fall 2011
- BAM – Spring 2012
- BAM – Fall 2012
- GEA – Spring 2012
- GEA – Fall 2012

### Comparison Courses & Group

BAM and GEA course sections are daytime, weekday, on-campus and not large-lecture sized. For non-accelerated comparable courses (see table below), only sections meeting the above criteria were included in the comparison group.

<table>
<thead>
<tr>
<th>Group</th>
<th>Accelerated Course</th>
<th>Comparison Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAM</td>
<td>Math-37</td>
<td>Math-12</td>
</tr>
<tr>
<td>GEA</td>
<td>Math-67</td>
<td>Math-40</td>
</tr>
</tbody>
</table>

### Summary Findings – BAM Progression

*Progression* is defined as the percentage of the original cohort that enrolls and successfully completes the indicated higher math course. Considering the first three cohorts of BAM combined, Students in BAM sections were much more likely to progress through levels of math courses up through transfer-level compared to students in non-BAM sections (Math-12). Over 68% of BAM students completed the equivalent of Elementary Algebra within two years compared with only 14% of the comparison Math-

---

1 Effective Fall 2013, the *BAM* course number is Math-37. The previous numbering for this course was Math-50D.
2 Effective Fall 2013, the *GEA* course number is Math-67. The previous numbering for this course was Math-50C.
12 students. Likewise, 38% of BAM students progressed through Intermediate Algebra and 9% successfully completed a Transfer-level course (Math-130, 150, or 170), compared to rates of 6% and 1%, respectively, for the comparison group.

### Summary Findings – GEA Progression

Again, *progression* is defined as the percentage of the original cohort that enrolls and successfully completes the indicated higher math course. Considering the first two cohorts of GEA combined, Students in GEA sections were twice as likely to progress through levels of math courses up through transfer-level compared with students in non-GEA sections (Math-40). Over 68% of GEA students completed the equivalent of Intermediate Algebra within two years compared with only 34% of the comparison Math-40 students. Similarly, 15% of GEA students progressed to and successfully completed a Transfer-level course (Math-130, 150, or 170), compared to 7% for the comparison group.
Tracking Charts
The following pages display tracking charts for accelerated and comparison courses for three separate cohorts of BAM (students enrolled in Fall 2011, Spring 2012, and Fall 2012 sections), and two separate cohorts of GEA (students enrolled in Spring 2012 and Fall 2012). Passed is defined as the number and percentage of enrolled students who complete a course with a C or better, or the equivalent. Persisted indicates the percentage of passing students who enroll in the next level of math. A student is counted if he or she ever enrolled or ever passed any course at the level indicated during the tracking period.

---

3 Tracking chart graphs were created by Marci Myers, Research Analyst, Institutional Research & Planning, based on a concept developed by Dr. Lars Kjeseth, Professor of Mathematics.
Basic Accelerated Math (BAM), Two-Year Progression in Math
Fall 2011 BAM Cohort (and Comparison Group)

Comparison Group (FA11, N=250)
- Arithmetic: 250 Enrolled
- Pre-Algebra
- Elementary Algebra: 40 Passed, 100% persist
- Interm. Algebra: 20 Passed, 8% of cohort progressed
- Transfer Level: 1 Passed, <1% of cohort progressed
- Never Enrolled in Next Course: 35%

BAM Group (FA11, N=109)
- Basic Accelerated Mathematics (BAM): 109 Enrolled
- Interm. Algebra: 84 Passed, 46% of cohort progressed
- Transfer Level: 50 Passed, 6% of cohort progressed
- Never Enrolled in Next Course: 93%

El Camino College
Basic Accelerated Math (BAM), Two-Year Progression in Math
Spring 2012 BAM Cohort (and Comparison Group)

Comparison Group (SP12, N=147)

- Arithmetic: 147 Enrolled
- Pre-Algebra
- Elementary Algebra: 13 Passed, 100% persist
- Interm. Algebra: 6 Passed, 50%
  - 14 Enrolled
- Transfer Level: 1 Passed, 33%

BAM Group (SP12, N=113)

- Basic Accelerated Mathematics (BAM): 113 Enrolled
- Interm. Algebra: 72 Passed, 83% persist
  - 60 Enrolled
- Transfer Level: 35 Passed, 54%
  - 19 Enrolled

Comparison Group (SP12, N=147)

- Never Enrolled in Next Course
  - 3 Never Enrolled in Next Course

BAM Group (SP12, N=113)

- Never Enrolled in Next Course
  - 2 Never Enrolled in Next Course

- Never Enrolled in Next Course
  - 16 Never Enrolled in Next Course
Basic Accelerated Math (BAM), Two-Year Progression in Math
Fall 2012 BAM Cohort (and Comparison Group)

Comparison Group (FA12, N=499)
- Arithmetic: 499 Enrolled
- Pre-Algebra
- Elementary Algebra: 73 Passed, 89% persist
- Interm. Algebra: 32 Passed, 6% of cohort progressed
- Transfer Level: 6 Passed, 1% of cohort progressed
- Never Enrolled in Next Course:
  - 8 Passed
  - 20 Failed to Pass

BAM Group (FA12, N=143)
- Basic Accelerated Mathematics (BAM): 143 Enrolled
- Interm. Algebra: 94 Passed, 38% of cohort progressed
- Transfer Level: 54 Passed, 13% of cohort progressed
- Never Enrolled in Next Course:
  - 13 Passed
  - 27 Failed to Pass

El Camino College
General Education Algebra (GEA), Two-Year Progression in Math
Spring 2012 GEA Cohort (and Comparison Group)

GEA Group – (SP12, N=109)

- 109 Enrolled
- 72 Passed
- 63% persist
- 45 Enrolled
- 15 Passed
- 33%
- 30 Failed to Pass
- 27 Never Enrolled in Next Course

Comparison Group – (SP12, N=327)

- 327 Enrolled
- 108 Passed
- 33% persist
- 36 Enrolled
- 19 Passed
- 53% of cohort progressed
- 17 Failed to Pass
- 72 Never Enrolled in Next Course

- 30 Failed to Pass
General Education Algebra (GEA), Two-Year Progression in Math
Fall 2012 GEA Cohort (and Comparison Group)

Comparison Group – (FA12, N=232)
- Elementary Algebra
  - 232 Enrolled
- Interm. Algebra
  - 83 Passed
  - 47% persist
- Transfer-Level Math
  - 39 Enrolled
  - 19 Passed
  - 49%
  - 20 Failed to Pass
  - 8% of cohort progressed
  - Never Enrolled in Next Course

GEA Group – (FA12, N=113)
- GEA
  - 113 Enrolled
  - 80 Passed
  - 64% persist
- Transfer-Level Math
  - 51 Enrolled
  - 19 Passed
  - 37%
  - 32 Failed to Pass
  - 17% of cohort progressed
  - Never Enrolled in Next Course