<table>
<thead>
<tr>
<th>High School Performance Metric BSTEM</th>
<th>Recommended AB 705 Placement for BSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>No HS Algebra II/Integrated Math 3</td>
<td>Math 240 or Math 235</td>
</tr>
<tr>
<td>HS Algebra II/Integrated Math 3 with grade less than C</td>
<td>Math 240 or Math 235</td>
</tr>
<tr>
<td>HSGPA ≥ 3.4 OR HSGPA ≥ 2.6 AND enrolled in a HS Calculus course Success rate = 75%</td>
<td>Math 6</td>
</tr>
<tr>
<td></td>
<td>Math 7</td>
</tr>
<tr>
<td></td>
<td>Math 8A</td>
</tr>
<tr>
<td>HSGPA ≥2.6 or Enrolled in HS Precalculus Success rate = 53%</td>
<td>Math 6 (Math 216 strongly recommended along with pre-semester bootcamp)</td>
</tr>
<tr>
<td></td>
<td>Math 7</td>
</tr>
<tr>
<td></td>
<td>Math 8A (Math 218 strongly recommended along with pre-semester bootcamp)</td>
</tr>
<tr>
<td>HSGPA ≤ 2.6 and no Precalculus Success rate = 28%</td>
<td>Math 6 + Math 216 (required)</td>
</tr>
<tr>
<td></td>
<td>Math 7</td>
</tr>
<tr>
<td></td>
<td>Math 8A + Math 218 (required)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High School Performance Metric for SLAM</th>
<th>Recommended AB 705 Placement for SLAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>No HS Algebra I/Integrated Math 2</td>
<td>Math 242</td>
</tr>
<tr>
<td>HS Algebra I/Integrated Math 2 with grade less than C</td>
<td>Math 242</td>
</tr>
<tr>
<td>HSGPA ≥ 3.0 Success rate = 75%</td>
<td>Math 5</td>
</tr>
<tr>
<td></td>
<td>Math 12</td>
</tr>
<tr>
<td></td>
<td>Math 14</td>
</tr>
<tr>
<td>HSGPA from 2.3 to 2.9 Success rate = 50%</td>
<td>Math 5 (Math 215 recommended)</td>
</tr>
<tr>
<td></td>
<td>Math 12</td>
</tr>
<tr>
<td></td>
<td>Math 14</td>
</tr>
<tr>
<td>HSGPA &lt; 2.3 Success rate of 29%</td>
<td>Math 5 + Math 215 (required)</td>
</tr>
<tr>
<td></td>
<td>Math 12</td>
</tr>
<tr>
<td></td>
<td>Math 14</td>
</tr>
</tbody>
</table>
Understanding Your Placement

Math 5: Introduction to Statistics

Math 5 is a 3-unit class which generally meets two days/week with one hour of lab. The lab may be in person or online depending which section you take.

COURSE DESCRIPTION: Descriptive analysis and presentation of either single-variable data or bivariate data, probability, probability distributions, normal probability distributions, sample variability, statistical inferences involving one and two populations, analysis of variance, linear correlation and regression analysis. Statistical computer software will be extensively integrated as a tool in the description and analysis of data.

Tips for Success:
- Expect to spend 6-9 hours or more outside of class per week reading the text, doing homework, working on labs, etc.
- Engage in tutoring in the Math Lab (MA 101) or the Tutoring Center (LI 116)
- Expect to engage in college level reading, writing and note-taking both in and outside of class
- If you feel you need more support, enroll in Math 215

Math 215: Statistics Support

Math 215 is a 2-unit support class linked to a particular section of Math 5. This class meets 2 hours/week.

A linked support class, taken with your transfer level course, provides additional instruction and skill-building to help you maximize your success in the transfer-level course.

COURSE DESCRIPTION: A review of the core prerequisite skills needed for Math 5: Introduction to Statistics. Intended for students who are concurrently enrolled in Math 5: Introduction to Statistics at Gavilan College. The course will focus on core concepts from Algebra and Statistics that are needed to support success in transfer-level Statistics. Topics include operations on real numbers including order of operations, fractions, decimals, percentages, exponents and logarithms, correct selection and implementation of statistical formulas, review of the Cartesian coordinate system and written interpretation of slope and intercept of linear equations, exploratory analysis of categorical, quantitative, single variable and bivariate data, discrete and normal probability, support for graphing calculator usage and for statistical software. This course is appropriate for students confident in beginning algebra who need support for intermediate algebra skills essential for statistics. This course is Pass/No Pass only. Corequisite: Math 5: Introduction to Statistics.
Math 6: Calculus for Business/Social Science

Math 6 is a 3-unit class which generally meets two days/week and is intended for students majoring in Business, Social Science and other non-STEM fields. It does not prepare you for further study in math or science. If you are a STEM major, you need to enroll in Math 8A or above.

COURSE DESCRIPTION: This course applies the fundamental principles and techniques of calculus to problems in business, economics, the life sciences and the social sciences. Topics will include limits, and differentiation and integration of linear, quadratic, polynomial, exponential and logarithmic functions. This course is not intended for students majoring in engineering, the physical sciences or math. Using a calculator is required. Graphing calculator is recommended.

Tips for Success:
• Expect to spend 6-9 hours or more outside of class per week reading the text, doing homework, working additional problems, etc.
• Take Math Bootcamp before the semester begins (Math 415 offered in August and January) to review algebra skills necessary for success in Math 6
• Engage in tutoring in the Math Lab (MA 101) or the Tutoring Center (LI 116)
• Take a Math Refresher (Math 412A or 412B) during the semester
• If you feel you need more support, enroll in Math 216

Math 216: Business Calculus Support

Math 216 is a 2-unit support class linked to a particular section of Math 6. This class meets 2 hours/week.

A linked support class, taken with your transfer level course, provides additional instruction and skill-building to help you maximize your success in the transfer-level course.

COURSE DESCRIPTION: A review of the core prerequisite skills needed in business calculus. Intended for students who are concurrently enrolled in Math 6: Calculus for Business/Social Science at Gavilan College. Topics include the following: polynomial, rational and radical expressions and equations, linear and quadratic equations and inequalities, exponential and logarithmic expressions and equations, functions, and graphs of linear, quadratic, exponential, and logarithmic functions. This course is appropriate for students who are confident in their graphing and beginning algebra skills. This course is Pass/No Pass only. Corequisite: Math 6: Calculus for Business/Social Sciences.
Math 8A: First Half of Precalculus

Math 8A is a **4-unit** class which generally meets 3 days/week during the day or 2 days/week in the evening, depending which section you take.

COURSE DESCRIPTION: Math 8A begins the student’s preparation for the study of calculus by providing important skills in algebraic manipulation, interpretation, and problem solving at the college level. Topics include basic algebraic concepts, complex numbers, equations and inequalities of the first and second degree, functions and their graphs, linear and quadratic equations, polynomial functions, exponential and logarithmic functions, systems of equations, and matrices.

Tips for Success:
- Expect to spend 8-12 hours or more outside of class per week reading the text, doing homework, working additional problems, etc.
- Take Math Bootcamp before the semester begins (Math 415 offered in August and January) to review algebra skills necessary for success in Math 8A
- Engage in tutoring in the Math Lab (MA 101), STEM Center (MA 102) or the Tutoring Center (LI 116)
- Take a Math Refresher (Math 412A or 412B) during the semester
- If you feel you need more support, enroll in Math 218

Math 218: Precalculus Support

Math 218 is a **1-unit** support class linked to a particular section of Math 8A. This class meets 3 hours/week.

A **linked support class**, taken with your transfer level course, provides additional instruction and skill-building to help you maximize your success in the transfer-level course.

COURSE DESCRIPTION: A review of the core prerequisite skills, competencies, and concepts needed in Math 8A: First Half of Precalculus. Intended for STEM majors who are concurrently enrolled in Math 8A: First Half of Precalculus, at Gavilan College. Topics include: a review of computational skills developed in intermediate algebra, factoring, operations on rational and radical expressions, absolute value equations and inequalities, exponential and logarithmic expressions and equations, and an in-depth focus on functions including composition, inverses and graphs. This course is appropriate for students who are confident in their graphing and beginning algebra skills. This course is Pass/No Pass only. Corequisite: Math 8A: First Half of Precalculus.
Math 7: Finite Mathematics

Math 7 is a 3-unit class which generally meets two days/week and is intended for students majoring in Business, Social Science and other non-STEM fields. It does not prepare you for further study in math or science. If you are a STEM major, you need to enroll in Math 8A or above.

COURSE DESCRIPTION: Systems of linear equations and matrices, introduction to linear programming, finance, counting techniques and probability, properties of probability and applications of probability.

Tips for Success:
- Expect to spend 6-9 hours or more outside of class per week reading the text, doing homework, working additional problems, etc.
- Take Math Bootcamp before the semester begins (Math 415 offered in August and January) to review algebra skills necessary for success in Math 7
- Engage in tutoring in the Math Lab (MA 101) or the Tutoring Center (LI 116)
- Take a Math Refresher (Math 412A or 412B) during the semester

Math 12: Math for Elementary Teachers

Math 12 is a 3-unit class which generally meets two days/week and is intended for students preparing for a career in elementary school teaching.

COURSE DESCRIPTION: This course is intended for students preparing for a career in elementary school teaching. Emphasis will be on the structure of the real number system, numeration systems, elementary number theory, and problem solving techniques. Technology will be integrated throughout the course.

Tips for Success:
- Expect to spend 6-9 hours or more outside of class per week reading the text, doing homework, working additional problems, etc.
- Engage in tutoring in the Math Lab (MA 101) or the Tutoring Center (LI 116)

Math 14: Math for Liberal Arts

Math 14 is a 3-unit class which generally meets one or two days/week and is intended for students interested in Liberal Arts and Humanities.

COURSE DESCRIPTION: Survey of selected topics from contemporary mathematics to introduce the liberal arts student to a variety of mathematical ideas, methods and historical trends. Topics include systems of numeration, logic, set theory, mathematical modeling, geometry, trigonometry, mathematics of finance, probability and statistics.

Tips for Success:
- Expect to spend 6-9 hours or more outside of class per week reading the text, doing homework, working additional problems, etc.
- Engage in tutoring in the Math Lab (MA 101) or the Tutoring Center (LI 116)
Resources Available to Support Your Math

Links to:

- Math Lab
- STEM Center
- Tutoring Center
- Bootcamp advertisements