Integrated Math 3A Syllabus

School: *Garfield High*

**Garfield High School**

1255 16th Street • San Diego, CA • 92101

(619) 362-4500 Ext. 2204

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| **Integrated Math 3A** **Teacher:**Mr. Vincent Viado  **Room:** 204  **Email:** vviado[@sandi.net](mailto:vviado@sandi.net)  **Office Hours:** 07:30-08:25, 11:25-11:50 (Monday-Friday) |

**Course content:** Students will cover both Algebra and Geometry concepts, as stated in the SDUSD Frameworks for Common Core Standards.  Topics covered will include solving probability and statistics, polynomial and rational functions, logarithmic functions, trigonometry, and conic sections (modeling with geometry).

**Homework frequency**:  Homework is given at teacher’s discretion.  If any work isn’t completed in class, it is considered as homework and is due the next day.  It is expected that students will spend approximately thirty minutes a night on study or homework assignments.

**Grading policies:**

* Academic
  + 90-100% = A
  + 80-89% = B
  + 70-79% = C
  + 60-69% = D
  + 59% and below = F
* Grade breakdown
  + Tests = 70%
  + Class work/homework assignments = 30%
* Extra credit:  As specified by the teacher on assignment-by-assignment basis and can only be used as 3% of total grade.

**In-class expectations and classroom rules:**

* No talking when the teacher is speaking.  Raise your hand if you have a question or something to say.
* Respect the rights of others.
* No electronic devices (cell phones, iPod, etc.) are allowed in class.
* Be polite and follow the school rules as indicated in the student manual.

**Consequences:**

* Conference with student, possible change of seat, or confiscation of electronic device.
* Referral to counselor and possible suspension/expulsion from class or other appropriate consequence.

**Class Schedule (Tentative):**

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| 4.00 | Right Triangle Trigonometry |
| 4.01 – 4.03 | Radian Measurement & Unit Circle |
| 4.04 | Pythagorean Identity |
| 4.05 | Solving Trigonometric Equations |
| 4.07 – 4.08 | Graphing Sine, Cosine, and Tangent Functions |
| 4.09 | Angle Sum Identities |
| 4.11 | Area of a Triangle |
| 4.12 – 4.13 | Law of Sines and Cosines |

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| 5.02 | Trigonometry with Radians |
| 5.04 | Solving Sine and Cosine Equations |
| 5.05 | Analyzing Graphs (Sine and Cosine) |
| 5.07 | Sinusoidal Functions (Amplitude, Period, Phase Shift) |
| 5.08 | Applying Trigonometric Functions |

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| 1.00 | Anatomy of a Polynomial |
| 1.02 | Lagrange Interpolation – Fitting Polynomial Functions to Tables |
| 1.05 | Polynomial Division |
| 1.08 | Quadratics |
| 1.10 | More Factoring Techniques |
| 1.11 | Rational Expressions |

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| 2.04 | Summation Notation |
| 2.10 | Arithmetic Sequences and Series |
| 2.11 | Geometric Sequences and Series |
| 2.12 | Limits |
| 2.13 | Pascal’s Triangle |
| 2.16 | Binomial Theorem |

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| 3.02 | Probability and Pascal’s Triangle |
| 3.03 | Polynomial Powers |
| 3.07 | Variance and Standard Deviation |
| 3.08 | Adding Variances |
| 3.09 | Repeated Experiments |
| 3.11 | Experiments and Simulations |