**Curriculum Map**

**Course Title:** AP Statistics **Grade:** 11-12

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| **Unit (Name/Number): Unit 5, Probability Theory** | **Pacing:** 16-18 days |

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| **Essential Question(s):**  How do we calculate the probability of events using formulas, charts, tree diagrams and Venn diagrams? |

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| **Content/Key Concepts** | **Standards** | **Key Vocabulary** | **Learning Activities/Resources** | **Evidence of Learning**  (Assessments; Performance Tasks) |

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| Probability Rules and Formulas | AP Statistics III, A | * Probability, outcome, event, intersection, union, addition rule, multiplication rule, complement, Venn Diagram | 3 days  Text, Stats Modeling the World, Bock, Velleman, DeVeaux,2nd edition, 2007.  Text, chapter 14  Against All Odds, Unit 18  <http://www.learner.org/resources/series65.html>  Practice problem worksheets |  |

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| Conditional Probability and Independence | AP Statistics III, A | * Conditional probability, independent events, mutually exclusive events, dependent events | 3 days  Text, chapter 14  Practice Problem worksheets | Quiz Ch 14 |

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| Tree Diagrams/Bayes Theorem | AP Statistics III, A | * Conditional probability, tree diagram, outcomes, events | 3 days  Text, chapter 15  Practice Problem Worksheets | Graded Tree Diagram Problems |

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| Simulation | AP Statistics III, A | * Standard simulation, wait time simulation, digit assignment, trials | 5 days  Text, Chapter 11  Against All Odds, Unit 19  <http://www.learner.org/resources/series65.html>  Simulation Packet | Simulation Project |

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| Application of concepts of probability | AP Statistics III, A |  | 2 days  Text, Chapter 12-13 | Test, Chapters 14-15  Graded FR AP Problems  MC Practice |