**2016-17 High School Scope & Sequence Overviews**

[Literature](#Lit) | [Math](#Math) | [History](#History) | [Science](#Science) | Composition\* | [Foundations of Leadership](#FOL) | [Specials](#Specials)  
*\*Due to shifts in HS Composition course offerings, those scopes & sequences will be delayed until the summer.*

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| **High School Literature** | | | |
| **9th Grade Literature** | | | |
| **Unit Order** | **Topic / Book** | **Notes** | |
| 1 | To Kill a Mockingbird | There are no new units in 9th grade. | |
| 2 | Catcher in the Rye  I Know Why the Caged Bird Sings |
| 3 | Oedipus Rex / Antigone |
| 4 | Romeo & Juliet |
| 5 | Siddhartha |
| 6 | Fahrenheit 451 |
| **10th Grade World Literature** | | | |
| **Unit Order** | **Topic / Book** | **Notes** | |
| 1 | In the Time of the Butterflies | There are no new texts in 10th grade, but the sequence has been rearranged slightly based on teacher feedback. | |
| 2 | Things Fall Apart  Heart of Darkness |
| 3 | Macbeth |
| 4 | God of Small Things |
| 5 | First They Killed My Father |
| 6 | White Teeth |
| **11th Grade American Literature – NON-AP** | | | |
| **Unit Order** | **Topic / Book** | **Notes** | |
| 1 | American Identity: Short Stories, Memoirs, and Poems | No book required; this is a new unit and we will not be reading “The Book of Unknown Americans” this year | |
| 2 | The Crucible | Units 2-6 are the same as last year. | |
| 3 | Sula |
| 4 | The Great Gatsby |
| 5 | Angels in America |
| 6 | The Brief Wondrous Life of Oscar Wao |
| **11th Grade AP Literature (new course – offered at some schools)** | | | |
| **Unit Order** | **Topic / Book** | **Notes** | |
| 1 | Foundations of AP Literature (Short Fiction) | There is no book required for this unit. | |
| 2 | Frankenstein | This is a new book | |
| 3 | The Crucible | These are the same books as Units 2, 3, 4, and 5 or 6 in 11th Grade American Literature | |
| 4 | Sula |
| 5 | The Great Gatsby |
| 6 | Angels in America **or** The Brief Wondrous Life of Oscar Wao (this will be a teacher’s or school’s choice – scholars will only read one of these) |
| 7 | The House of the Spirits | Schools that offered AP Lang already have copies of these books; we are moving these books down from AP Lang | |
| 8 | Hamlet |
| **12th Grade AP Language & Composition** | | | |
| **Unit Order** | **Topic / Book** | | **Notes** |
| 1 | Foundations of AP Language (Short Rhetoric) | | There is no book required for this unit. |
| 2 | The Things They Carried | | These are the same books as last year. |
| 3 | Americanah  Why Are All the Black Kids Sitting Together in the Cafeteria | |
| 4 | The Handmaid’s Tale | |
| 5 | The Tipping Point | |

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| **High School Math** | | |
| **Grade 9 Algebra 1** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Equations and Inequalities | The order has not changed from the 2015-16 school year |
| 2 | Function Modeling |
| 3 | Exponential Functions |
| 4 | Systems of Equations and Inequalities |
| 5 | Two Variable Statistics |
| 6 | Single Variable Statistics |
| 7 | Introduction to Polynomials |
| 8 | Quadratic Functions and Equations |
| 9 | Extended Functions and Equations |
| **Grade 10 Geometry** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Coordinate Geometry | The order has not changed from the 2015-16 school year |
| 2 | Transformations |
| 3 | Equations of Parabolic Conic Sections |
| 4 | Congruent Triangles |
| 5 | Constructions |
| 6 | Geometric Relationships |
| 7 | Similar Triangles |
| 8 | Trigonometry |
| 9 | Circles |
| 10 | Geometric Measurement and Dimension |
| 11 | Probability |
| **Grade 11 Algebra 2** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Quadratic Functions and Equations | The order has not changed from the 2015-16 school year |
| 2 | Polynomial Functions and Equations |
| 3 | Rational Expressions and Equations |
| 4 | Radical Functions and Equations |
| 5 | Exponential Functions |
| 6 | Sequences and Series |
| 7 | Trigonometry |
| 8 | Systems of Equations |
| 9 | Statistical Design |
| 10 | Inferences and Conclusions from Data |
| **Grade 11 Algebra 2 with Pre-Calculus** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Quadratic Functions and Equations |  |
| 2 | Polynomial Functions and Equations |  |
| 3 | Rational Expressions and Equations |  |
| 4 | Radical Functions and Equations |  |
| 5 | Exponential Functions |  |
| 6 | Sequences and Series |  |
| 7 | Trigonometry |  |
| 8 | Statistical Design |  |
| 9 | Inferences and Conclusions from Data |  |
| 10 | Compositions and Inverses of Functions |  |
| 11 | Limits | This is an additional unit |
| **Grade 12 AP Statistics** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Designing Studies | The order has not changed from the 2015-16 school year |
| 2 | Exploring Data |
| 3 | Modeling Distributions of Data |
| 4 | Probability |
| 5 | Random Variables |
| 6 | Sampling Distributions |
| 7 | Estimating with Confidence |
| 8 | Testing a Claim |
| 9 | Comparing two Populations or Groups |
| 10 | Inferences for Distributions of Categorical Data |
| 11 | Describing Relationships |
| 12 | Regression |
| 13 | Review for the AP Exam |
| 14 | Final Project of Task |
| **Grade 12 AP Calculus** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Limits and Continuity | The order has not changed from the 2015-16 school year |
| 2 | Introduction to the Derivative |
| 3 | Computing Advanced Derivatives |
| 4 | Applications of Derivatives I |
| 5 | Applications of Derivatives II |
| 6 | Derivatives with the Calculator |
| 7 | The Definite Integral |
| 8 | Integrals with a Calculator |
| 9 | Area and Volume |
| 10 | Differential Equations |
| 11 | Review for the AP Exam |
| 12 | Final Project or Task |

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| **High School History** | | |
| **Pre-AP World History I** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Neolithic Revolution | Quarter 1 (a) (APWH Key Concepts 1.1 and 1.2) |
| 2 | Early Civilizations | Quarter 1 (b) (APWH Key Concept 1.3) |
| 3 | Comparative Religions | Quarter 2 (a) (APWH Key Concept 2.1) |
| 4 | Classical Empires | Quarter 2 (b) (APWH Key Concept 2.2) |
| 5 | Trade Networks | Quarter 3 (APWH Key Concepts 2.3 and 3.1) |
| 6 | Postclassical Empires | Quarter 4 (APWH Key Concepts 3.2 and 3.3) |
| **AP World History** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Early Modernity | Quarter 1 (APWH Key Concepts 4) |
| 2 | Atlantic Revolutions, Industrialism, Imperialism, and World War I | Quarter 2 (APWH Key Concepts 5 and 6.2) |
| 3 | The Contemporary Era (1900 – Present) | Quarter 3 (APWH Key Concepts 6.1, 6.2, and 6.3) |
| 4 | AP Exam Review | Quarter 4 (a) |
| 5 | Research Paper | Quarter 4 (b) |
| **AP US History** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Pre-colonial America – Early Republic | Quarter 1 (APUSH Key Concepts 1, 2, and 3) |
| 2 | The 19th Century | Quarter 2 (APUSH Key Concepts 4, 5, and 6) |
| 3 | The 20th Century | Quarter 3 (APUSH Key Concepts 7 and 8) |
| 4 | 1980-Present; AP Exam Review | Quarter 4 (a) (APUSH Key Concept 9, AP Exam Review) |
| 5 | Bridge to Civics Research Project | Quarter 4 (b) (Bridge to Civics Research Project) |
| **Civics** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Constitutional Underpinnings | Quarter 1 |
| 2 | Institutions of National Government | Quarter 1 |
| 3 | Federalism | Quarter 1 |
| 4 | Public Policy | Quarter 2 |
| 5 | Political Participation | Quarter 2 |
| 6 | Civil Liberties | Quarter 3 |
| 7 | Civil Rights | Quarter 3 |
| 8 | Research | Quarter 4 |

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| **High School Science** | | |
| **9th Grade Pre-AP Physics** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Motion and Net Force |  |
| 2 | Newton’s Second Law |  |
| 3 | Impulse and Engineering |  |
| 4 | Gravity and Motion in Space |  |
| 5 | Energy Part 1 |  |
| 6 | Energy Part 2 |  |
| 7 | Waves |  |
| 8 | Final Project |  |
| **10th Grade Pre-AP Chemistry** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Periodic Table and Its Trends |  |
| 2 | Interactions of Matter |  |
| 3 | Chemical Reactions |  |
| 4 | Chemistry of Water |  |
| 5 | Rates of Reaction and Equilibrium |  |
| 6 | Energy |  |
| 7 | Nuclear Chemistry and Space Science |  |
| 8 | Chemistry of the Earth | This unit may be altered from 15-16 |
| **11th Pre-AP Biology** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Evolution |  |
| 2 | Homeostasis |  |
| 3 | Energy and Matter |  |
| 4 | Reproduction and Inheritance |  |
| 5 | Development |  |
| 6 | Ecology |  |
| 7 | Human Impacts on the Environment | This unit may be altered from 15-16 |
| **12th AP Biology** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Evolution |  |
| 2 | Reproduction and Inheritance |  |
| 3 | Development |  |
| 4 | Cellular Homeostasis |  |
| 5 | Systems Homeostasis |  |
| 6 | Energy |  |
| 7 | Ecology |  |
| 8 | Final Projects |  |
| **12th AP Chemistry** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Periodicity / Bonding |  |
| 2 | Intermolecular Forces |  |
| 3 | The Study of Matter | This was unit 1 in 15-16 |
| 4 | Chemical Reactions |  |
| 5 | Kinetics |  |
| 6 | Equilibrium |  |
| 7 | Thermodynamics |  |
| 8 | Electrochemistry |  |
| 9 | Final Project |  |
| **12th AP Physics** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Kinematics |  |
| 2 | Forces |  |
| 3 | Circular Motion |  |
| 4 | Impulse and Momentum |  |
| 5 | Work and Energy |  |
| 6 | Rotational Motion |  |
| 7 | Simple Harmonic Motion |  |
| 8 | Mechanical Waves |  |
| 9 | Electrostatics |  |
| 10 | DC circuits |  |

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| **Foundations of Leadership** | | |
| **Grade 9** | | |
| **Unit Order** | **Topic** | **Additional Notes** |
| 1 | Introduction to High School and College Expectations | Units 1, 3, and 5 have some overlap with the 2015-2016 curriculum; the rest is new. |
| 2 | Exploring Careers |
| 3 | Applying Summer Programs |
| 4 | Identity and Relationships |
| 5 | Racial Identity Development |
| **Grade 10** | | |
| **Unit Order** | **Topic** | **Additional Notes** |
| 1 | Identity and Community Exploration | The 10th grade curriculum is completely new. |
| 2 | Exploring Careers and Applying to a Summer Program |
| 3 | Financial Literacy |
| 4 | Building Professional and Academic Relationships |
| **Grade 11** | | |
| **Unit Order** | **Topic** | **Additional Notes** |
| 1 | Mock Admissions | Unit 1 is heavily revised from ’15-’16; the rest will have less substantial revisions. |
| 2 | College Financial Fit/ Financial Literacy |
| 3 | College Research / College Fit |
| 4 | Personal Statement |
| 5 | College Interview & Recommendation / College List |

**Specials Program**Specials program designs vary across network high schools due to graduation requirements. The Scope and Sequences below represent the program model at AF Hartford HS, where scholars have instruction in each discipline year-round for two or three days per week. Because the actual dates of instruction may vary depending on the model (e.g scholars one discipline every day for a semester and then switch, or scholars attend in mixed grade groups), teachers should follow the numbered days of instruction as they fit with their schedules, and therefore may progress through a Scope and Sequence at a different pace than another teacher in the network.

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| **High School Theater** | | |
| **Grade 9 Theater** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Ensemble Building |  |
| 2 | Statues & Group work |  |
| 3 | Status Scenes |  |
| 4 | Intention scenes |  |
| 5 | Modern scene work |  |
| 6 | Romeo & Juliet-Modernization |  |
| 7 | Romeo & Juliet-Classical |  |
| 8 | Playwriting |  |
| 9 | Final Project |  |

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| **High School Physical Education** | | |
| **Grade 10 Physical Education** | | |
| **Unit Order** | **Topic** | **Notes** |
| 1 | Teambuilding & Cooperative Activities |  |
| 2 | Basketball |  |
| 3 | Soccer |  |
| 4 | Volleyball |  |
| 5 | Cardiovascular Fitness: Circuit Training |  |
| 6 | Muscular Strength & Endurance |  |
| 7 | Comprehensive Fitness Unit |  |
| 8 | Floor Hockey |  |