

## The Harker School – Academic Planning Chart with Graduation Requirements

		9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	Requirements
1	English	English 1: Literary Genres	English 2: British Lit	English 3: American Lit	English 4: 2 semester courses or AP English Lit	4 years
2	Math					3 years 4 recommended
3	Science	Physics	Chemistry	Biology		3 years
4	History	World 1	World 2, Honors World 2, AP World, or AP European	United States		3 years
5	Language					Complete Level 3
6	Arts / Computer Science	Study of Visual, Music, Dance, Theater, or Tech Theater				Arts - 1 year Comp Sci – 1 sem
7	Extra Period Option					
	Total Credits (min)	6	5 – 6	5 – 6	5 – 6	22 credits minimum

## ENGLISH

English 1: The Study of Literary Genres (Y)  
 Honors English 1 (Y)  
 English 2: A Survey of British Literature (Y)  
 Honors English 2 (Y)  
 English 3: A Survey of American Literature (Y)  
 Honors English 3 (Y)  
 AP English Literature (Y, *open to seniors only*)

***Planned English 4 electives for '25-'26*** (all semester courses, *open to Grade 12, open to Grade 11 with permission*)

Art of Poetry & Fiction	Black American Lit
Graphic Narrative	Great Novels
Greek Myths	Holocaust Literature
Shakespeare	Lit into Film
Mystery & Detective	Short Fiction
Jack Kerouac	Speculative Fiction
Postmodern Lit	

## STUDY OF THE ARTS CLASSES

*these classes fulfill the arts graduation requirement*  
 Study of Music (Y)  
 Study of Theater Arts (Y)  
 Study of Visual Arts (Y)  
 Study of Dance (Y)

## COMPUTER SCIENCE

Digital World (S)  
 Programming (S) or Advanced Programming (S)  
 Robotics Principles: Hardware (S)  
 AP Computer Science A (Y)  
 Honors Data Structures (S)  
 AP Computer Science A with Data Structures (Y)  
 Honors Advanced Topics in Comp. Science (S)  
 • *Robot Kinematics Software* (offered every year)  
 • *Computer Architecture* (26-27, 28-29)  
 • *Compilers & Interpreters* (25-26, 27-28)  
 • *Neural Networks* (25-26, 27-28)  
 • *Program Languages* (28-29)  
 • *Expert Systems* (26-27)

## MATHEMATICS

Algebra 1 (Y)  
 Geometry / Honors Geometry (Y)  
 Algebra 2/Trigonometry / Hon Alg 2/Trig (Y)  
 Precalculus / Honors Precalculus (Y)  
 Finite Math (Y)  
 Calculus (Y)  
 AP Calculus AB (Y)  
 AP Calculus BC (Y)  
 Honors Calculus C with Multivariable Calculus (Y)  
 Statistics (Y) / AP Statistics (Y)  
 Honors Multivariate Calculus (S)  
 Honors Differential Equations (S)  
 Honors Discrete Mathematics (S)  
 Honors Linear Algebra (S)  
 Honors Advanced Topics in Mathematics (S)  
 • *Signals & Systems* • *Dif Eq 2* • *Stochastic Processes*  
 Engineering (S) – *open to Grade 12 only*

## SCIENCE

Physics / Honors Physics (Y)  
 AP Physics 2 (Y)  
 AP Physics C (Y)  
 Chemistry / Honors Chemistry (Y, *Grade 10*)  
 AP Chemistry in 10<sup>th</sup> grade (Y, *requires 4-week summer course before Grade 10*)  
 AP Chemistry in Grade 11 or 12 (Y)  
 Study of Organic Chemistry (S, 25-26)  
 Honors Nanoscience (S, 25-26)  
 Chemistry of Sustainable Living (S, 26-27)  
 Honors Analytical Chemistry (S, 26-27)  
 Biology / Honors Biology (Y, *taken Grade 11*)  
 AP Biology in 11<sup>th</sup> grade (Y, *requires 4-week summer course before Grade 12*)

Electronics (S)  
 Astronomy (S)  
 Seminar in Modern Physics (S)  
 Research Methods (S) H. Adv. Research (S)  
 Forensic Science (S)  
 Biomedical Ethics (S)  
 Biotechnology (S)  
 Indigenous Science (S)  
 H. Systems Science (S)  
 H. Bioinformatics (S)

## SCIENCE cont.

*Open to Grade 12 only*  
 AP Biology (Y, *no summer course required*)  
 Honors Human Anatomy and Physiology (Y)  
 AP Environmental Science (Y)

## HISTORY AND SOCIAL SCIENCE

*Open to Grade 9*  
 World History 1 / Honors World History 1 (Y)  
  
*Open to Grade 10, 11, 12*  
 World History 2 / Honors World History 2 (Y)  
 AP World History: Modern (Y)  
 AP European History (Y)  
 AP Art History (Y)

*Open to Grade 11*  
 United States History / Honors US History (Y) /  
 AP United States History (Y)

*Grade 10-12 electives (semester classes)*  
 Civics & Regional Politics(S)  
 Psychology (S)  
 Social Psychology (S)  
 World Religions and Philosophy (S, 25-26)  
 Latin American History (S, 25-26)  
 Intro to Women & Gender Studies (S, 25-26)  
 Intro to Ethnic Studies (S, 26-27)  
 Intro to Social Justice (S, 26-27)

*Open to Grade 12 only*  
 AP Psychology (Y)  
 AP United States Government and Politics (Y)  
 Honors Modern International Affairs (S)

## BUSINESS AND ENTREPRENEURSHIP

Economics (S) Behavioral Economics (S)  
 Hnrs Entrepreneurship: Startup Incubator I & II (Y)  
 H. Corporate Finance (S)  
 H. Venture Capital (S)  
 AP Economics – Micro and Macro (Y)  
 Hon Adv Topics in Economics: Game Theory (S)  
 Hon Adv Topics in Economics: Econometrics (Y)

## MODERN & CLASSICAL LANGUAGES

### **Latin**

Latin 1 (Y)  
 Latin 2 (Y)  
 Latin 3 / Honors Latin 3 (Y)  
 Latin 4 (Y)  
 AP Latin (Y)  
 Hon Advanced Latin Literature (S)  
 - *Epic* - *Satire*

### **Spanish**

Spanish 1 (Y)  
 Spanish 2 / Honors Spanish 2 (Y)  
 Spanish 3 / Honors Spanish 3 (Y)  
 Spanish 4 / Honors Spanish 4 (Y)  
 AP Spanish Language and Culture (Y)  
 AP Spanish Literature (Y)  
 Honors Advanced Spanish (S)  
 • *The Latin American Short Story*  
 • *Lit and Film of the Spanish-Speaking World*

### **French**

French 1 (Y)  
 French 2 (Y)  
 French 3 / Honors French 3 (Y)  
 French 4 / Honors French 4 (Y)  
 AP French Language and Culture (Y)  
 Honors Advanced French (S)  
 - *French Literature & Film* - *French Prose*

### **Japanese**

Japanese 1 (Y)  
 Japanese 2 (Y)  
 Japanese 3 / Honors Japanese 3 (Y)  
 Japanese 4 / Honors Japanese 4 (Y)  
 Japanese 5 (Y)  
 AP Japanese Language & Culture (Y)  
 H. Contemporary Japan (Y)

### **Mandarin**

Mandarin 1 (Y)  
 Mandarin 2 (Y)  
 Mandarin 3 / Honors Mandarin 3 (Y)  
 Mandarin 4 / Honors Mandarin 4 (Y)  
 AP Chinese Language and Culture (Y)  
 Honors Advanced Chinese (S)  
 - Lit & Culture. - Contemp China

## GLOBAL ONLINE ACADEMY

For most up to date listing, check: [www.globalonlineacademy.org](http://www.globalonlineacademy.org)

Arabic Language through Culture I, II, or III (Y ea)  
 Japanese Language through Culture I, II, or III (Y ea)

### **Fall:**

Applying Philosophy to Global Issues (S)  
 Climate Action & Sustainability (S)  
 Creative Nonfiction Writing (S)  
 Data Visualization (S) Filmmaking (S)  
 Genocide & Human Rights (S)  
 Global Health (S) Intro to Organic Chemistry I (S)  
 Multivariable Calc I  
 Microeconomics (S) Number Theory (S)  
 Race & Society (S) Positive Psychology (S)

### **Fall & Spring:**

Architecture (S) Abnormal Psychology (S)  
 Bioethics (S) Business Problem Solving (S)  
 Computer Science I: Computational Thinking (S)  
 Computer Science II: Analyzing Data w/ Python (S)  
 Cybersecurity (S) Social Psychology (S)  
 Developmental Psychology (S)  
 Entrepreneurship in a Global Context (S)  
 Game Theory (S) Graphic Design (S)  
 Intro to Branding & Marketing (S)  
 Investing I & II(S) Macroeconomics (S)  
 Intro to Artificial Intelligence (S)  
 Intro to Legal Thinking (S) Intro to Psychology (S)  
 International Relations (S) Linear Algebra (S)  
 Medical Problem Solving I (S) & II (S)  
 Neuropsychology (S) Personal Finance (S)  
 Prisons & Criminal Justice Systems (S)  
 Problem-solving w/ Engineering & Design (S)

### **Spring:**

Arts Entrepreneurship (S)  
 Biochemistry: Medicine, Drugs & Addiction  
 Capitalism: Past, Present, & Future  
 Comp Science II: Game Design & Development (S)  
 Computer Science II: Java (S) Multivariable Calc 2  
 Discourse across Difference (S)  
 Digital Photography (S) Religion & Society (S)  
 Fiction Writing (S) Gender & Society (S)  
 Intro to Blockchain & Cryptocurrency (S)  
 Intro to Organic Chemistry II (S)

## VISUAL ARTS ELECTIVES

### **Foundations**

Ceramics (S) Drawing (S)  
 Graphic Design (S) Painting (S)  
 Photography (S) Spatial (S)

### **Advanced Portfolio**

Ceramics (S) Drawing (S)  
 Graphic Design (S) Painting (S)  
 Photography (S) Spatial (S)

AP Drawing, 2-D, or 3-D (Y *each*)

Filmmaking: Special Topics in Media Arts (S)

Glass: Special Topics in Spatial Art (S)

Printmaking: Special Topics in 2D Art (S)

Senior Capstone (S)

## PERFORMING ARTS ELECTIVES

Advanced Acting (S)  
 Advanced Scene Study (S)  
 Student-Directed Showcase (S)  
 Shakespeare in Performance (S, 25-26)  
 Vocal Interpretation (S, 25-26)  
 Acting for the Camera (S, 26-27)  
 Conducting Basics (S, 26-27)  
 Arranging & Composing (S, 26-27)  
 Basic Voice/Accompanying (S, 25-26)  
 Intermediate Musicianship (S, 25-26)  
 Performance Practice for Instrumentalists (S)  
 AP Music Theory (Y)  
 Dance Composition (S) Choreography (S)  
 Technical Theater 1 (S) Technical Theater 2 (S)  
 Technical Theater 3 (S)

## EXTRA PERIOD OPTIONS

YEAR-LONG COURSES FOR ½ CREDIT

Intro to Speech & Debate / Intermediate Spch & Deb  
 Intro to Journalism  
 Journalism: Newspaper/Adv. Journalism: Newspaper  
 Journalism: Yearbook/ Adv. Journalism: Yearbook  
 Principles of Business and Entrepreneurship  
 • Rhapsody • Dolce Voce • Capriccio • Downbeat  
 Harker Dance Company / Kinetic Krew  
 Lab Band / Jazz Band  
 Orchestra

COURSES NOT FOR CREDIT

Competitive Speech and Debate  
 Business Leadership PE: Personal Fitness (PE credit)

All placements are subject to departmental review and approval.

(S) classes meet for a semester; (Y) classes meet for both semesters.

See the 2025-26 US Course of Study PDF on the student/parent portal or Schoology for graduation requirements and course descriptions including prerequisites.