

The Harker School – Academic Planning Chart with Graduation Requirements

		9 th	10 th	11 th	12 th	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 '24-25 (all semester courses, *open to Grade 12, open to Grade 11 with permission*)

Art of Poetry & Fiction	Black American Lit
Asian Masterpieces	Bible as Literature
Graphic Narrative	Holocaust Literature
Shakespeare	Lit into Film
Mystery & Detective	Short Fiction
Satire & Comedy	Speculative Fiction

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)
 Study of Technical Theater (Y)
 AP Art History (Y) – *open to Grade 10-12 only*

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 (24-25, 26-27)*
 • *Compilers & Interpreters (25-26, 27-28)*
 • *Neural Networks (25-26, 27-28)*
 • *Program Languages (24-25)*
 • *Numerical Methods (25-26) • 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)
 • *Info Theory 1* • *Info Theory 2*
 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 10th 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, 24-25)
 Honors Analytical Chemistry (S, 24-25)
 Biology / Honors Biology (Y, *taken Grade 11*)
 AP Biology in 11th grade (Y, *requires 4-week summer course before Grade 12*)
 AP Biology in Grade 12 (Y)
 Electronics (S)
 Astronomy: Life & Death in the Universe (S)
 Seminar in Modern Physics (S)
 Research Methods (S)
 Honors Adv. Research (S)
 Forensic Science (S)
 Biomedical Ethics (S)
 Biotechnology (S)
 H. Systems Science (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 (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, 24-25)
 Intro to Social Justice (S, 24-25)
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)
 - *Lyric Poetry* - *Prose*

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)
 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)

GLOBAL ONLINE ACADEMY

For most up to date listing, check: www.globalonlineacademy.org
 Arabic Language through Culture I, II, or III (Y ea)
 Japanese Language through Culture I, II, or III (Y ea)
 Multivariable Calculus (Y)

Fall:

Applying Philosophy to Modern Global Issues (S)
 Climate Action & Sustainability (S)
 Creative Nonfiction Writing (S)
 Data Visualization (S) Filmmaking (S)
 Genocide & Human Rights (S)
 Global Health (S)
 Introduction to Organic Chemistry I (S)
 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)
 Cybersecurity (S) Social Psychology (S)
 Developmental Psychology (S)
 Entrepreneurship in a Global Context (S)
 Game Theory (S) Graphic Design (S)
 Introduction to Branding & Marketing (S)
 Investing I (S) Macroeconomics (S)
 Introduction to Artificial Intelligence (S)
 Introduction to Legal Thinking (S)
 Introduction 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)
 Capitalism: Past, Present, & Future
 Computer Science II: Analyzing Data w/ Python (S)
 Comp Science II: Game Design & Development (S)
 Computer Science II: Java (S)
 Discourse across Difference (S)
 Digital Photography (S) Religion & Society (S)
 Fiction Writing (S) Gender & Society (S)
 Introduction to Blockchain & Cryptocurrency (S)
 Introduction to Organic Chemistry II (S)

FINE ARTS ELECTIVES

Ceramics / Adv. Ceramics (S)
 Drawing / Adv. Drawing (S)
 Filmmaking: Special Topics in Media Arts (S)
 Glass: Special Topics in 3D Art (S)
 Graphic Arts / Adv. Graphic Arts (S)
 Painting / Adv. Painting (S)
 Photography / Adv. Photography (S)
 Printmaking: Special Topics in 2D Art (S)
 Sculpture / Adv. Sculpture (S)
 AP Drawing, 2-D, or 3-D (Y *each*)
 Honors Directed Portfolio (S)

PERFORMING ARTS ELECTIVES

Advanced Acting (S)
 Acting for the Camera (S)
 Advanced Scene Study (S)
 Student-Directed Showcase (S)
 Shakespeare in Performance (S, 24-25)
 Vocal Interpretation (S, 25-26)
 Conducting Basics (S, 24-25)
 Arranging & Composing (S, 24-25)
 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 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 • Cantilena • 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)