Upper School GRADES 9-12

PROGRAMS
2022-23

Information in this brochure represents our program for the previous academic year. The year your student enrolls, there may be slight changes to the program.

## THE HARKER SCHOOL

UPPER SCHOOL PROGRAMS

GRADES 9-12 • 2022-23
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## GENERAL INFORMATION

Harker strives to create lifelong learners. Curious and thoughtful students encounter a multitude of opportunities in and out of the classroom, sparking discovery throughout their time at our upper school. From the basketball court to the debate podium, from the research lab to the stage, and in so many other ways, students discover their unique paths with the opportunity to explore each interest in depth. We advocate for students finding balance among their commitments with our wellness program, advisors, counselors, extensive teacher office hours, and block schedule. Engaging teachers and classmates truly care for each other and create a warm and supportive community. Harker graduates are more than ready to take their place as global citizens and leaders.

These pages are intended to, in one place, convey the vast possibilities to craft an experience unique to you. Enjoy learning about the possibilities!

## LIFE AND WELLNESS

## PURPOSE

LIFE at Harker stands for Living with Intent, Focus and Enthusiasm, and these tenets inform the skills, attitudes and behaviors necessary to ethically and compassionately respond to everyday decisions and challenges. During these formative years, a student's personal growth happens in relation to others, from teachers and peers to coaches and staff members. LIFE models forming such vital connections through our work with well-established organizations such as Challenge Success, Common Sense Media and Freedom from Chemical Dependency (FCD).

## LIFE SESSIONS

The purpose of LIFE sessions is to designate a time for students at each grade level to engage with professionals and other knowledgeable adults on topics vital to their overall development into healthy, happy and successful adults. Topics vary by grade and from year to year so that students are receiving the most pertinent, up-to-date information. All LIFE sessions are mandatory. General topics include:

- Decision-making
- Planning for a positive high school experience
- Sexuality
- Alumni Q\&A
- Mindfulness
- Digital awareness
- Substance abuse
- Distracted driving
- Healthy relationships


## WORKSHOPS

Workshops are held periodically for students to join voluntarily. The workshops are typically 30 minutes in length and occur during the days that the student body has an hour and a half lunch break. General topics include:

- Adulting 101
- Female wellness
- Male wellness
- Self defense
- Mindfulness
- Time management
- College preparation with alumni


## EAGLE BUDDIES

Each year grade 10 students are paired with grade 3 students to be Eagle Buddies. These buddies will remain together throughout the following three years. The upper school and lower school Eagle Buddies have three opportunities each year to get together to have lunch, play games and enjoy various activities. The buddies write each other several times each year.

## PARENT EDUCATION

One thing is certain in childhood and adolescence: change is constant. As such, the challenge for parents is to continually evolve to meet the unique needs of their child in order to remain supportive of their unique development. At The

Harker School, we believe that parents and teachers are partners in this journey. On our website and in our libraries, we offer parenting resources that could be valuable in meeting typical developmental opportunities. We provide digital family resources and regular presentations from our learning, innovation and design directors about media and digital literacy. We also provide parent presentations regarding normal developmental growth and challenges such as managing stress and current topics of teen culture.

## STUDENT ORGANIZATIONS

The following is a sampling of the clubs, societies and programs. Lists may vary slightly each year, especially for clubs.

## CLUBS

Aerospace Club
App Development Club
Applied Tech Club
Art Club
Astronomy Club
Biodiversity Club
Biotechnology (Biotech) Club
Book Blog Club
Business Analytics Club
Car Club
Chess Club
Civic Tech Club
Civil Discourse Club
Dance Club
Diversity, Equity, and Inclusion (DEI)
Book Club
Dungeons \& Dragons Club
Ethics in Technology Forum
FEM Club
Future Problem Solvers (FPS)
Green Team
GSA
Harker C.A.R.E.S. Program
Harker Eclectic Literature and Media
(HELM)

Harker HOSA
HarkerCTF
HarkerDev
Historical Research Club
IMDO (Medical Olympiad)
Interact
International Outlook Foundation
Investment Club
Key Club
Languages and Linguistics Club
Law Club
Maker Club
Marine Sciences Club
Math Club
Medical Club
Model UN
Multicultural Club
Multimedia Club
Music Creation Club
Nanoseed
Philosophy Club
Physical Sciences Club
Podcast Network
Power of Words
Programming Club
Protecting Animals Worldwide

Psychology Club

## PROGRAMS

Career Connect DECA
Economics Program
Honor Council
Junior Classical League
Math Competitions
Research Program
Robotics Team
Spirit Leadership
TedX Harker School
Student Council/ASB
Student Diversity Coalition (SDC)
Ambassador Program
Student Activities Board

## SOCIETIES

Chinese National Honor Society French National Honor Society Japanese National Honor Society National Honor Society Oeconomia Spanish National Honor Society Tri-M Music Society

## COMPETITIVE ATHLETICS

Harker students benefit from our talented coaching staff and athletic trainers. We field more than 40 teams in 15 different sports. These are Harker's competitive sports which do earn students .5 credit of P.E. per season. For non-competitive P.E. options, see page 8.

## FALL SPORTS

Cheerleading
Cross country
Football
Golf - girls
Tennis - girls
Volleyball - girls
Water polo-boys
Water polo - girls

## WINTER SPORTS

Basketball - boys
Basketball - girls
Cheerleading
Soccer - boys
Soccer - girls

## SPRING SPORTS

Baseball
Golf - boys
Lacrosse - girls
Softball
Swimming
Track \& field
Tennis - boys
Volleyball - boys


School begins every day at 8 a.m. and ends at 3 p.m. Our block schedule rotates through four different schedules and any schedule can occur on any day of the week. For example, if the week begins with an A schedule it ends on Friday with the A schedule and starts with the B schedule on Monday. Classes meet every other day for 85 minutes each, allowing for indepth discussion and a variety of teaching methods.

- Great access to teachers and extra help during office hours. Teachers are in their rooms to meet with any students every other day for 30 minutes, after school every Monday, Tuesday and Thursday.
- 10-minute passing periods to allow time to relax and refocus for next class.
- Extra period options, such as journalism or orchestra, meet during the school day during a class period.
- Long lunch periods of 70 minutes every other day, which is also a time that clubs meet.
- Advisory is group of 8-10 students who meet during D days with a teacher. The advisory stays together all four years and is great for downtime and developing a close bond with a diverse group.
- School meeting is an opportunity for the whole school to gather as a community to share important news.
- Class meeting offers each grade level a separate opportunity to address matters salient to their smaller community.


## BUSINESS AND ENTREPRENEURSHIP

Principles of Business and Entrepreneurship
Business Leadership
Honors Entrepreneurship: Startup Incubator I and II
Economics*
Behavioral Economics*
AP Economics (Micro and Macro)
Honors Advanced Topics in Economics: Game Theory*
Honors Advanced Topics in Economics: Econometrics

## COMPUTER SCIENCE

Digital World*
Programming*
Advanced Programming*
Robotics Principles: Hardware*
AP Computer Science A
AP Computer Science with Data Structures
Honors Data Structures*

Honors Advanced Topics in Computer Science*

- Compilers and Interpreters
- Computer Architecture
- Expert Systems
- Neural Networks
- Numerical Methods os
- Programming Languages
- Robot Kinematics Software ©
* symbol indicates course is calculus intensive


## ENGLISH

English 1: The Study of Literary Genres
English 2: A Survey of British Literature
English 3: A Survey of American Literature
Honors English 1: The Study of Literary Genres
Honors English 2: A Survey of British Literature
Honors English 3: A Survey of American Literature
ELECTIVE CLASSES: English senior electives are semester-
long classes and rotate each year.
Every elective may not be offered every year.
AP English: Literature and Composition (year-long class)
English 4:
Modern American Drama
Modern American Poetics
Art of Poetry and Fiction
Asian Masterpieces
Black American Literature
Gothic Literature: Vampires and the Macabre The Graphic Narrative Great Novels Jack Kerouac and the Beat Generation

Justice in Literature
Literature into Film
Literature of the Holocaust
Madness in Literature
The Modern Essay
Modern European Drama
Mystery and Detective Fiction
Native American Literature
Postmodern Literature
Russian Literature
Satire and Comedy
Shakespeare - Comedies, Tragedies and Romances
Southern Fiction
Speculative Fiction and Society: Science Fiction and Fantasy
A Study of Short Fiction

## GLOBAL ONLINE ACADEMY

Harker is a member of the Global Online Academic, a nonprofit consortium of more than 85 independent schools representing 20 countries and over 25 states. Membership in GOA allows Harker students to explore electives in an online setting that fosters global collaboration.

YEARLONG (1.0 units):
Arabic Language through Culture I
Arabic Language through Culture II
Arabic Language through Culture III
Japanese Language through Culture I
Japanese Language through Culture II
Japanese Language through Culture III
Multivariable Calculus

SEMESTER-LONG:
Applying Philosophy to Global Issues
Business Problem-Solving
Creative Nonfiction
Filmmaking
International Relations
Introduction to Investments
Introduction to Legal Thinking
Microeconomics
Number Theory
Problem-Solving with Engineering Design
Race \& Society
Social Psychology
Bioethics
Computer Science I: Computational Thinking

Global Health<br>Graphic Design<br>9/11 in a Global Context<br>Abnormal Psychology<br>Architecture<br>Climate Change \& Global Inequality<br>Computer Science II: Analyzing Data with Python<br>Computer Science II: Game Design and Development<br>Computer Science II: Java Cybersecurity<br>Data Visualization<br>Digital Photography<br>Entrepreneurship in a Global Context<br>Fiction Writing<br>Game Theory<br>Gender and Society<br>Genocide and Human Rights<br>Linear Algebra<br>Macroeconomics<br>Medical Problem-Solving I \& II<br>Neuropsychology<br>Prisons and Criminal Justice Systems<br>Personal Finance<br>Positive Psychology<br>Arts Entrepreneurship<br>iOS App Design

## HISTORY AND SOCIAL SCIENCE

Required Courses - Grade 9
World History 1: Early Civilizations through the
Renaissance or World History 1 Honors
Required Courses - Grade 10
World History 2, World History 2 Honors, AP World
History, or AP European History
Required Courses - Grade 11
U.S. History, Honors U.S. History, or

AP U.S. History

YEARLONG ELECTIVES:
AP Art History
AP Psychology
AP United States Government and Politics

SEMESTER ELECTIVES:
History of the Holocaust and Genocide
Honors Modern International Affairs
Honors Modern International Topics
Psychology
World Religions and Philosophy
Social Psychology
Civics
Intro to Ethnic Studies
Intro to Social Justice

## JOURNALISM

ntroduction to Journalism
Journalism: Yearbook Concentration
Advanced Journalism: Yearbook Concentration

Journalism: Newspaper Concentration
Advanced Journalism: Newspaper Concentration

## MATHEMATICS

Algebra 1
Algebra 2 \& Trigonometry
Honors Algebra 2 \& Trigonometry
Geometry
Honors Geometry
Precalculus
Honors Precalculus
Finite Mathematics
Calculus
AP Calculus AB
Honors Calculus C with Multivariable Calculus
AP Calculus BC

AP Statistics
Honors Multivariate Calculus*
Honors Differential Equations*
Honors Linear Algebra*
Honors Discrete Mathematics*
Engineering*
Honors Advanced Topics in Mathematics*
Topics Offered:

- Information Theory I and II*
- Signals and Systems
- Differential Equations II


## MODERN AND CLASSICAL LANGUAGES

## SPANISH

Spanish 1
Spanish 2
Honors Spanish 2
Spanish 3
Honors Spanish 3
Spanish 4: Advanced Conversation and Composition Honors Spanish 4
AP Spanish Language and Culture
AP Spanish Literature and Culture
Literature and Film of the Spanish-Speaking World*
Contemporary Issues in the Spanish-Speaking World*
The Latin American Short Story*

## FRENCH

French 1**
French 2
French 3
Honors French 3
French 4: Advanced Conversation and Composition Honors French 4
AP French Language \& Culture
French Prose*
French Literature \& Film*
Honors Advanced Topics in French: Renaissance \& Classical Literature*
Honors Advanced Topics in French: Romantic \& Modern Literature*

## JAPANESE

Japanese 1**
Japanese 2
Japanese 3
Honors Japanese 3
Japanese 4
Honors Japanese 4
Japanese 5
Contemporary Japan
AP Japanese Language and Culture

## LATIN

Latin 1**
Latin 2
Latin 3
Honors Latin 3
Latin 4: Advanced Study of Roman Prose and Poetry
AP Latin
Honors Advanced Latin Literature: Epic*
Honors Advanced Latin Literature: Satire*
Honors Advanced Latin Literature: Prose*
Honors Advanced Latin Literature: Lyric Poetry*
CHINESE
Mandarin 1**
Mandarin 2
Mandarin 3
Honors Mandarin 3
Mandarin 4
Honors Mandarin 4
AP Chinese Language and Culture

## PHYSICAL EDUCATION

## NONCOMPETITIVE

Capoeira*
Personal Fitness (P.E. and Weightlifting)*
Yoga*

## ACADEMIC COURSES IN P.E.

Kinesiology and Sports Medicine 1
Kinesiology and Sports Medicine 2

## SCIENCE

Required Courses - Grade 9
Physics or Honors Physics
Required Courses - Grade 10
Chemistry, Honors Chemistry or AP Chemistry
Required Courses - Grade 11
Biology, Honors Biology or AP Biology

ELECTIVE CLASSES
Honors Analytical Chemistry*
AP Biology
AP Chemistry
AP Environmental Science
AP Physics 2

AP Physics C
Astronomy*
Biotechnology*
Electronics*
Honors Human Anatomy and Physiology
Honors Nanoscience*
Research Methods
Advanced Research Methods*
The Science of Food*
Seminar in Modern Physics*
Study of Organic Chemistry*
Biomedical Ethics

Speech
Public Forum
Congressional

## VISUAL AND PERFORMING ARTS

## PERFORMING ARTS

REQUIRED COURSES
(One of the following full-year courses)
Study of Dance
Study of Music
Study of Theater Arts
Study of Visual Arts
Study of Technical Theater
AP Art History

## ELECTIVE COURSES

Advanced Acting*
Scene Study*:
Advanced Scene Study
Shakespeare in Performance
Student-Directed Showcase*
Acting for the Camera*
Technical Theater* 2 \& 3
AP Music Theory
Bel Canto
Camerata
Cantilena
Downbeat
Conducting Basics*

Arranging and Composing*
Basic Vocal Technique and Collaborative Piano*
Harker Dance Company
Kinetic Krew
Dance Composition*
Choreography*
Lab Band
Jazz Band
Orchestra
Performance Practice for Instrumentalists*
Vocal Interpretation

## VISUAL ARTS

Architecture*
Ceramics*
Advanced Ceramics*
Drawing*
Advanced Drawing*
Graphic Design*
Advanced Graphic Design*
Painting*
Advanced Painting*
Photography*
Advanced Photography*

* $=$ semester-long class

Sculpture*
Advanced Sculpture*
Printmaking
Filmmaking

Glass
AP Studio Art (Drawing, 2-D \& 3-D)
Honors Art: Directed Portfolio*

## CONSERVATORY CERTIFICATE PROGRAM

Students especially interested in the performing arts may apply for participation in the Harker Conservatory Certificate program in one of the following areas: dance, instrumental music, vocal music, acting, musical theater or technical theater. To receive the certificate, students engage in a rigorous four-year program; they are guided through a comprehensive course of study in all of the performing arts, with special emphasis in the discipline of the student's choice. Program requirements include courses and workshops in disciplines other than the student's emphasis, involvement in productions/ensembles/festivals, sophomore juries and through live performance critiques in a variety of genres, including dramas, musicals and concerts. The program culminates in the senior year with a final presentation to the faculty advisory panel and a formal performance of pieces from the student's portfolio, accompanied by the presentation of the Certificate. Most Conservatory requirements do not appear on the transcript.

## ADVANGED CURRICULUM

## ADVANCED PLACEMENT ${ }^{\text {TM }}$ COURSES

AP English Literature \& Composition
AP U.S. History
AP U.S. Government \& Politics
AP European History
AP World History
AP Psychology
AP Economics - Macro
AP Economics - Micro
AP Calculus AB
AP Calculus BC
AP Statistics
AP Spanish Language \& Culture
AP Spanish Literature
AP French Language \& Culture
AP Japanese Language \& Culture
AP Chinese Language \& Culture

AP Latin
AP Chemistry*
AP Biology*
AP Physics 2
AP Physics C
Mechanics
Electricity \& Magnetism
AP Environmental Science
AP Computer Science
AP Art History
AP Music Theory
AP Studio Art
2-D Design
3-D Design
Drawing

[^1]
## POST-ADVANCED PLACEMENT™ COURSES

These courses require completion of an $A P$ Course as a prerequisite.

Advanced Topics in Computer Science:<br>Honors Data Structures<br>Computer Architecture<br>Compilers and Interpreters<br>Expert Systems<br>Robot Kinematics Software<br>Programming Languages<br>Numerical Methods<br>Neural Networks<br>Honors Multivariable Calculus<br>Honors Linear Algebra<br>Honors Differential Equations<br>Honors Discrete Math

Honors Advanced Topics in Mathematics:
Signal \& Systems
Differential Equations II
Information Systems I \& II
Honors Advanced Topics in French:
Renaissance \& Classical Literature
Romantic \& Modern Literature
Honors Advanced Latin Literature:
Epic
Satire
Lyric Poetry
Prose

## CURRICULUM INFORMATION

The curriculum at The Harker School is composed of a core of required courses which forms the basis of a strong liberal arts education. A broad array of elective offerings, particularly in the senior year, helps to meet the individual needs and interests of students. As a college preparatory school, Harker provides each student with a personal course of study which is challenging but which also offers extensive extracurricular opportunities. Our extensive offering of clubs, activities, sports and performance opportunities beyond the classroom are critical pieces of the Harker educational experience.

## Developing a Curriculum Plan

Students are asked in the freshman year to develop, with the guidance of the academic dean/pre-college counselor, a four-year plan that satisfies the graduation requirements as well as their personal education goals. The purpose of this plan is to ensure that students will think through all elective choices carefully. This use of elective courses will help students explore areas of interest and possibly develop depth in those areas of study which most appeal to them. Careful planning helps students avoid being unable to take desired subjects because they have run out of time in their schedules. Advance planning also allows students to make sure they will be prepared for important college admissions exams. Students will make revisions to their plans in subsequent years, but it is important always to have a realistic plan that extends to graduation.

## Graduation Requirements

To graduate from The Harker School students must:

- complete at least 22 academic credits which must include all required courses and credit totals within each department;
- complete at least two credits (four semesters or seasons) of physical education credit;
- complete the 30-hour community service requirement described in the student/parent handbook; and
- abide by the behavior expectations described in the Honor Code and the Code of Conduct in the student/parent handbook.

Academic credit is only given for courses taken at Harker.

## Academic Planning Chart with Graduation Requirements

The following chart will be used when the students meet with the academic dean/pre-college counselor to create the four-year plan. It graphically shows the requirements as well as the slots available for the required (shaded) and elective (not shaded) courses. Students must take a minimum of five academic classes (always including English) for each of their eight semesters and a maximum of six academic classes. The Extra Period Option courses are not included in this five/six class requirement, but students do earn a grade and one half credit for the year in most (but not all) of these courses. See the upper school course of study in the upper school academic section of our website, including credit information, on the Extra Period Options which include music (Bel Canto, Downbeat, Cantilena, Camerata, Orchestra and Jazz Band), Dance (Harker Dance Company and Kinetic Krew), Journalism (Newspaper and Yearbook), Speech and Debate (Introductory and Competitive), and Business and Entrepreneurship (Principles and Business Leadership). There is no grade for P.E., but students may take a P.E. class during the school day in this Extra Period Option course slot.

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

## English - 4 years/8 semesters

The first three years have a set curriculum. The senior year students take AP English Literature or choose two semesterlong courses from a list with many options.

## Mathematics - $\mathbf{3}$ years/ 6 semesters

Students must complete a minimum of three years of mathematics in the upper school and have completed the following courses: Algebra 1, Geometry and Algebra 2/Trigonometry. We strongly recommend that students take four years of mathematics.

## Science - $\mathbf{3}$ years/ 6 semesters

The three years have a set curriculum and order - Physics, Chemistry and Biology.

## History - 3 years/6 semesters

The first and third years are set with, respectively, World History 1 and U.S. History. The second year students choose between World History 2, Honors World History 2, AP World History or AP European History.

## Foreign Language - completion of level 3

Students must pass a level 3 or higher course and take at least 1 year at the upper school to satisfy this requirement. This does not necessarily require three years of study in the upper school. While we encourage students to continue beyond level 3, and many do, it is not required.

## Study of the Arts - 1 year

Students must take a yearlong course in the arts, generally in the freshman year. Students choose between Study of Visual Arts, Study of Theater Arts, Study of Music, Study of Technical Theater and Study of Dance. Students may instead take AP Art History in grades 10-12 if they qualify and are approved; most upperclassmen who enjoy this challenging course take it as an elective in addition to the Study of the Arts course as a freshman.

## Computer Science - 1 semester

Students must complete one semester of computer science in a course that emphasizes algorithmic thinking. Most satisfy this requirement with Digital World, Programming or Advanced Programming, but students with significant prior inclass course work may test directly into AP Computer Science or APCS with Data Structures (both yearlong courses).

## Electives - as necessary

Students choose electives as desired to ensure a minimum of five and a maximum of six academic courses at all times and a total of 22 credits by graduation.

## Physical Education - 4 semesters (or sports seasons)

Though ungraded, students must complete four semester-long P.E. courses or participate in competitive after-school sports for four seasons. Students can take a P.E. class during the day (instead of having a free period), or students can sign up for an after-school P.E. class. At a minimum, one P.E. class or sports season should be completed each year.

## COLLEGE COUNSELING

Harker's college counseling office helps students and families navigate the college search and admission process. We strive to alleviate some of the stress often associated with college admission and to ensure that each student has options for where to attend. College counseling is available to students all four years. For example, the academic dean meets with freshmen and their families to learn about their interests and craft a four-year academic plan.

## PARENT COLLEGE NIGHTS

Several College Nights educate parents of all grade levels about the current college admission scene and keep them informed of the progress of their students.

## INDIVIDUAL APPOINTMENTS

Beginning in the second semester of the junior year, college counselors meet individually with students and parents. During the family meetings, the student's academic record, interests and goals are discussed. During the individual appointments with students, college counselors seek to learn about the student's personal and academic interests, explore possible college choices, and discuss expectations for the college search and college admission process. Meetings with students and parents continue in the senior year, so we can provide guidance and feedback on applications and help students with their final college decisions.

## WEEKLY COLLEGE COUNSELING CLASSES

During the second semester of the junior year and the first semester of the senior year, students meet weekly for College Counseling Class, which introduces all of the important college admissions topics. These include: evaluating colleges; staying calm and organized; early action and early decision; the University of California; writing college essays; and having productive college visits and interviews.

## COLLEGE VISITS TO HARKER

The college counseling office welcomes about 100 college admission representatives to the school each year. Seniors are encouraged to attend these presentations to learn more about the colleges and ask general questions of their representatives.


HARKER.


[^0]:    *Note: Elective courses rotate, and may not be offered every year.

[^1]:    * Students who enroll directly into AP Chemistry or AP Biology without previous study of that subject in high school are required to complete a summer course.

