
Hebron Academy

Course Catalogue

2021-2022



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COURSE OFFERINGS

AT A GLANCE

Skills Courses

AGC Support Program (9+)
Health & Wellness Seminar (9)
PG Seminar (PG)

English

Humanities English (9)
World Literature, reg/honors* (10)
American Literature, reg/honors* (11)
British Literature (12)
Honors Comparative Literature* (12)
AP English Literature & Composition* (12+)

English for Speakers of Other Languages (ESOL)

Grammar, Speaking, & Listening |
Pre-Foundations
Science Explorations | Foundations
English | Foundations
Western Civilization | Foundations
English World Literature | Advanced
US History | Advanced
Critical Reading, Writing, & Discussion

History and Social Science

Humanities History (9)
Economics & Entrepreneurship (10+)
Psychology (10+)

World History, reg/honors* (10)
US History, reg/honors* (11+)
AP US History* (11+)
International Relations, reg/honors* (10+ /
honors 11+)
AP Psychology* (12+)

Mathematics

Algebra 1
Geometry, reg/honors*
Algebra 2, reg/honors*
Precalculus, reg/honors*
Calculus*
AP Calculus AB* (11+)
Statistics & Data Analysis (11+)
AP Statistics & Data Analysis* (11+)
Financial Math (12+)

Science and Engineering

Conceptual Physics (9)
Chemistry w/lab, reg/honors (10+)*
AP Chemistry w/lab* (11+)
Biology w/lab, reg/honors* (11+)
AP Biology w/lab* (11+)
Physics w/lab (10+)
AP Physics C w/lab* (11+)
Anatomy & Physiology (10+)
Environmental Science (10+)

Human Biology & Public Health (10+)
Kinesiology (10+)
Principles of Engineering | E2 (10+)
Applied Engineering | E3 (11+)
Social Innovation | E3 (11+)
Engineering Capstone | E4 (12+)

Visual and Performing Art

Chorus (9+)
Orchestra (9+)
Freshman Design (9)
Studio Art 2D (10+)
Advanced Studio Art 2D* (10+)
Audio Recording & Production (10+)
Digital Art & Media (10+)
Photography (10+)
3D Design & Build (10+)
Advanced Audio Recording & Prod (11+)
Advanced Digital Art & Media (11+)
Advanced Photography* (11+)
Ceramics (10+)
AP Studio Art | 2D, 3D, or Drawing* (11+)
Advanced Ceramics* (12+)

World Language

Spanish I, II, III, IV/V*
French I, II, III, IV/V*

Notes

* Honors/AP courses require departmental approval.
AP students are required to take the AP exam in May.
All courses assume prerequisites are met.
Independent Study options are available with approval.
All core courses are NCAA approved except Financial Math.
Minimum enrollment is required to run classes.
Math, World Language, and ESOL students new to Hebron are placed at the discretion of those departments.
Visual and Performing Art courses charge studio fees.
Instruments are available to rent, fees for lessons.

Graduation Requirements - 18 credits

English: 4 credits
Math: 3 credits (4 recommended)
Science: 2 credits with labs (3+ recommended)
History: 2 credits (3+ recommended)
World Language: 2 credits (3+ recommended)
Visual & Performing Arts: 1 credit (2+ recommended)
Electives: 4 credits

Course Selection

Course selection depends on many factors. Previous courses completed, prerequisites, past performance, interest of the student, and college goals will be taken into consideration when determining course selection. The below are **sample** course progressions, by no means applicable to all.

Students are required to take five courses, although many take six. Arts courses are typically taken as a sixth course. Enrollment in the Academic Guidance Center is considered your sixth course.

Math, ESOL, and language classes are proficiency-placement based. For example, if Algebra 1 was completed in middle school, freshmen begin with geometry. All new international students are tested for proficiency upon arrival in the fall to determine math and language course levels.

Students are encouraged to speak with others for guidance (teachers, department chair, advisor, college counselor, Dean of Academics, Academic Guidance, parents).

9th Grade

Humanities English
Humanities History
Conceptual Physics
Math (placement based)
World Language (placement based)
Health & Wellness Seminar

10th Grade

World Literature (regular or honors)
World History (regular or honors) | or elective
Chemistry (regular or honors)
Math (placement based)
World Language (placement based)
Arts | or elective

11th Grade

American Literature (regular or honors)
US History (regular, honors, or AP)
Biology (regular, honors, or AP)
Math (placement based)
World Language (placement based) | elective
Arts | or elective

12th Grade

British Literature (regular), or Comparative Literature (honors), or AP Literature
History | or elective
Physics (regular or AP) | or elective
Math (placement based)
World Language (placement based) | or elective
Arts | or elective

Post Graduate

PG Seminar
Math (placement based)
Electives for all other courses if grad requirements have been met

ESOL (placement based)

Foundations → Advanced → Critical Reading, Writing, & Discussion → Mainstreamed Courses

The goal of our academic program at Hebron Academy is to graduate seniors who are:

- **effective communicators;**
- **adaptable learners;**
- **responsible global citizens; and**
- **poised to lead.**

ACADEMIC PRINCIPLES

Through a comprehensive liberal arts curriculum complemented by a range of electives, we develop students who have a breadth of knowledge, who gain a greater understanding of themselves, and who have unbounded confidence ensuring lifelong curiosity and success. Graduates leave Hebron well prepared for higher education in top colleges and universities. The following are Hebron's guiding academic principles.

Effective Communicators

We affirm each unique voice by shaping its articulation in writing, speaking, listening, and artistic expression. At the core of this experience is our innovative four-year curriculum that systematically introduces, challenges, and inspires students as they experiment with different media. Forming, stretching, and refining effective communication skills equip students to discover the power inherent in trusting both their views and voice while positioning them to participate in and contribute to life's vibrant spectrum of opportunities.

Adaptable Learners

In a world characterized by dynamic innovation and unrelenting change, those who lead fulfilling lives must be curious, adaptable, confident, and resilient. In presenting a comprehensive liberal arts and science program, we intentionally expose our students to many different styles of teaching, learning, assessing, expressing, and creating. Our faculty is empowered to explore new pedagogical methods in the classroom, to recognize student uncertainty, and use it as a springboard for analysis and discussion. Our students are encouraged to reach, try, fail, change, and grow. Our approach to inspiring adaptability in our students is purposeful, precise, and proven.

Responsible Global Citizens

Being connected, engaged, and open to new perspectives are the qualities today's global citizen possesses and the ones we cultivate at Hebron. We nurture empathy and a shared sense of responsibility to ensure that our students feel part of a worldwide community here on campus and beyond. We support them as they participate in educational, linguistic, and service experiences that foster awareness, promote environmental stewardship, and create opportunities to become accountable international citizens. We model and reward adopting a global lens to recognize and analyze multiple viewpoints on issues. The Hebron experience is alive with avenues for students to share their varied backgrounds and experiences in order to expand their perspectives and enrich interactions with each other, the environment, and the world.

Poised to Lead

Throughout their tenure here students acquire, cultivate, and hone leadership skills. We guide them in discovering how to identify their individual core values so they can leverage them to engage actively in the classroom, the community, and the world. We recognize that leadership comes in many forms and encourage students to better understand themselves in order to develop their capacity to take purposeful initiative. Our academic program provides experiences that equip students to test their courage, rise to a challenge, take decisive initiative, learn from failure, face adversity, and embrace resiliency. These characteristics inspire Hebron students to succeed here and in college and to lead lives of deliberate purpose and meaning for their own benefit and the benefit of others.

COURSE DESCRIPTIONS

Skills Courses

The Academic Guidance Center (AGC) (9+)

The AGC seeks to empower students of all abilities to become academically independent and accountable. The AGC is principled on developing academic strategies, greater academic confidence, and self-awareness. The intent of the Academic Guidance Center is to build a stronger and more independent student who is aware of their strengths and weaknesses. Students learn to manage their academic work, advocate for themselves, and use academic tools and strategies to succeed.

Health & Wellness Seminar (9)

The Health & Wellness seminar at Hebron is a year-long required course for ninth grade that meets two periods a week and focuses on the physical, emotional, mental, and social dimensions of the students' well-being. Students will be provided with skills and awareness through their examination of a variety of topics in the wellness field including: hygiene and self-care, mindfulness-based stress management, sleep, growth mindset, physical fitness, and healthy relationships. Experiential learning will be enriched through student-led community projects, and essential skills in time management, study habits, and the research process will be interwoven.

Post-Graduate Seminar (PG)

The PG Seminar course will help students get the most out of their Hebron experience and prepare for college. This course will focus on leadership, self-management, and executive-function skills. PG Seminar will include a year-long passion project as well as weekly guest speakers who will include faculty, alumni, and others. Goal setting will be a major focus to establish milestones which will be tracked throughout the year. Students will finish with a tangible product, whether it be a website, blog, video, graphic design, or research project, as well as an online presence on which they can use to build after graduation and beyond. College counseling will be an integral part of this course during the fall and winter trimesters.

English

Humanities English (9)

Ninth grade history and English classes are taught collaboratively in combined and distinct classes. Students study the human achievements of three civilizations: China, Ancient Greece, and the European Renaissance. In English, they read deeply in a variety of genres, including T'ang poetry, Homer's *Odyssey*, plays by Sophocles and Shakespeare, and modern Chinese fiction. Students actively participate in discussions with their peers to develop their understanding of the text, and they write in a variety of forms (personal narratives, poetry, fiction, analysis) with emphasis on clarity, voice, and detail. Students learn the skills of annotation, close reading and explication; they perform scenes, recite poetry, and investigate topics for MLA research papers.

World Literature (10)

Sophomores review elementary literary concepts while exploring the genres of romance, tragedy, and comedy in world fiction, poetry, and drama. Students write every day in a variety of formats, developing their voices and learning how to select and use supporting details in coherent ways. In short essays, students explore various forms of exposition, personal narrative, analysis, and argumentation. Students often engage in cross-curricular explorations of world literature and history while gaining experience in public speaking through seminar discussions and presentations. Vocabulary building and grammar work are routine. World Literature authors currently include Erich Maria Remarque, Elie Wiesel, Sophocles, Roddy Doyle, Athol Fugard, Gabriel Garcia Marquez, and Shakespeare among others.

World Literature Honors (10)

In this more rigorous course, sophomores advance their critical reading and writing skills, working to develop their own voices through the exploration of more complex essay forms. Honors World Literature considers fiction, poetry, and drama from a variety of periods and locations, with particular focus on romance, tragedy, and comedy. Students gain experience in public speaking through seminar discussions and presentations; they write a variety of papers and poetic works. Vocabulary building and grammar work are routine. Honors World Literature authors currently include Oscar Wilde, Chinua Achebe, Erich Maria Remarque, John Rabe, and William Shakespeare. Enrollment in this course requires departmental approval.

American Literature (11)

This junior-level course increasingly emphasizes close critical reading within the context of American Literature. Students explore a variety of voices and perspectives as they consider what it means to be an American. Students' essays are longer and more complex, occasionally utilizing more than one primary and secondary source. Exercises in public speaking are integral parts of the course. Readings include short fiction, novels, essays, poetry, and contemporary drama. Texts include works by authors such as F. Scott Fitzgerald, Arthur Miller, Tim O'Brien, and August Wilson.

American Literature Honors (11)

This course offers juniors an intensive study of American literature in the contexts of American historical and cultural development. Selections range from early political and persuasive essays to contemporary poems, drama, short stories, and novels. Students will analyze and interpret literature as well as to study trends and changing perspectives. Writing assignments stress principles of unity, coherence, and full development of ideas. This course complements studies undertaken by the Advanced Placement U.S. History and Honors U.S. History courses. Texts currently include works by Hawthorne, Miller, Emerson, Morrison, Crane, Fitzgerald, Hemingway, O'Brien, and McCarthy. Enrollment in this course requires departmental approval.

British Literature (12)

As the foundational pre-collegiate English literature class for seniors, British Literature aims to examine a broad selection of important British works, especially classic writings dating back to *Beowulf*, Geoffrey Chaucer, and William Shakespeare. Additional texts include works by Oscar Wilde and Mary Shelley. The course also emphasizes preparedness for college-level writing and study. Students will learn how to write essays, creative works, and research papers more effectively by exploring a variety of composition techniques. Moreover, the class aims to serve a broader purpose of encouraging students to develop empathy for those of other backgrounds, as emphasized with the homelessness research paper and study unit using Teun Voeten's work *Tunnel People*.

Honors Comparative Literature (12)

The study of comparative literature means, in a broad sense, reading works by authors from different backgrounds, from different time periods, and in different genres, all while looking at themes, arguments, and literary styles that cross all of these categories. In this rigorous course offered to seniors, students move through the reading list of short stories, novels, and plays by examining groups of texts that go together in some way, such as fairy tales from various cultures or novels with strong female protagonists. Throughout the year, students also write in a variety of genres, including analytical essays, and creative projects. Texts have included *The Handmaid's Tale*, *The Hours*, *King Lear*, *Mrs. Dalloway*, and *Station Eleven*. Enrollment in this course requires departmental approval.

AP English Literature & Composition (12+)

Advanced Placement Literature and Composition is a rigorous full-year course offered to seniors designed to fulfill the learning objectives outlined by the College Board and to prepare students to take the timed AP exam in the spring. Students are expected to perform at a college-freshman level in terms of reading comprehension, reading pace, written expression, and familiarity with literary elements and terms. Students will explore American and British literature in a variety of genres—drama, poetry, short stories, and novels—and from literary periods from the Renaissance through contemporary. The course theme of “Allusion, Influence, and Adaptation” will attune students to issues of intertextuality—that is, the way authors and works echo, respond to, and playfully engage with other works across literature. As they read, write, and discuss throughout the course, students' ultimate goal will be to become more attentive to the power and beauty of literature, its relevance to students' lives, and the value of participating in a literary community. Enrollment in this course requires departmental approval.

English for Speakers of Other Languages

Grammar, Speaking, & Listening | Pre-Foundations

The Grammar, Speaking, & Listening class focuses on beginner grammar topics and classroom conversation. Grammar topics are studied in a controlled to less controlled sequence. Students move from controlled book work to extended conversations. This progression helps students gain confidence and proficiency. Individual attention is given to students' pronunciation and individual challenge areas.

Science Explorations | Foundations

This hands-on class will focus on necessary scientific skills such as independent research, technical writing, and the experimental method while giving students a scientific context to learn English. These skills will be taught with content drawn from the three major branches of science: physics, chemistry, and biology. Students will learn to conduct scientific inquiry in English formally and informally through academic written work and oral presentations, through various laboratory experiments, experiences, and fieldwork in the areas of physics, chemistry, biology, and ecology. The overarching theme will be micro to macro as students will learn basic scientific themes behind much of the content they will be exposed to in future courses. The course will strongly emphasize lab and writing skills to reinforce the idea that science is inquiry based and that students must draw conclusions by first generating evidence.

English | Foundations

This skills-based course is designed for students whose native language is other than English and are at the beginning to early stages of proficiency. Course work will increase student skills and confidence in the areas of grammar, academic reading, writing, listening, and speaking. Students will apply these skills during academic tasks such as note taking, presenting information, discussing in groups, reading, and writing for a variety of purposes. Students will learn the formats, structures, and vocabulary for academic writing such as essays, research papers, critiques, and summaries. In addition, students will practice their speaking and listening skills, both formally and informally. Individualized pronunciation practice is incorporated to improve student intelligibility and confidence when speaking.

Western Civilization | Foundations

This skills-based course is designed for students whose native language is other than English and are at the beginning to early stages of proficiency. Course work will increase student skills and confidence in the areas of academic reading and writing needed in high school and for college preparation. Students will gain a deeper understanding of how to use primary and secondary sources of information while continuing to build vocabulary and academic English fluency. Students will learn the formats, structures, and vocabulary for academic writing genres such as essays, research papers, reports, and summaries. In addition, students will gain experience and improve their skills in formal presentations and speaking in group settings. Content, projects, and texts work in conjunction with ESOL English Foundations with cross-curricular units.

English World Literature | Advanced

This skills-based course is designed for students whose native language is other than English but who already have a firm foundation in the English language. Course work will increase student skills and confidence in the areas of academic reading, writing, listening and speaking. Students will gain a deeper understanding of how the English language works and more clarity in their language by studying grammar, vocabulary, composition, and a variety of fiction and nonfiction texts. Students will learn the formats, structures, and vocabulary for academic writing genres such as essays, research papers, reports, summaries, poetries, and short stories. They will also gain experience in formal oral presentations and speaking in a group setting.

US History | Advanced

This skills-based course is designed for students whose native language is other than English but who already have a firm foundation in the English language. Course work will increase student skills and confidence in the areas of academic reading and writing needed in high school and for college preparation. Students will gain a deeper understanding of how the English language works and gain more clarity in their language by exploring primary and secondary information sources. In addition, students will gain experience and improve their skills in formal presentations and speaking in a group setting. Students will learn the formats, structures, and vocabulary for academic writing genres such as essays, research papers, reports, and summaries.

Critical Reading, Writing, & Discussion | ESOL

This class will focus on reading, writing, and discussion skills. With current events as the theme, students will read articles and literature in order to provide content for their essays and discussions. Students will improve researching, writing, and discussion skills as well as increase their academic vocabulary.

History and Social Science

Humanities History (9)

Ninth grade history and English classes are taught collaboratively in both combined and distinct classes. Students study the human achievements of three civilizations: China, Ancient Greece, and the European Renaissance. They delve into a variety of genres, including Tang poetry, Homer's *Odyssey*, plays by Sophocles and Shakespeare, and modern Chinese fiction. Students actively participate in discussions with their peers to develop their understanding of texts, and they write in a variety of forms (personal narratives, poetry, fiction, analysis) with emphasis on clarity, voice, and detail. Students learn the skills of annotation, close reading, and explication as well as perform scenes, recite poetry, and investigate topics for MLA research papers.

Economics & Entrepreneurship (10+)

Economics & Entrepreneurship is a full-year course designed to introduce students to the fundamentals of economics as well as the challenges facing entrepreneurs when they start a business. The fall trimester will focus on microeconomics: the decisions made by consumers, firms, and governments in allocating scarce resources. Areas of study will include demand/supply curves, elasticity of demand/supply, production constraints, and consumer wants and needs. The winter trimester will be spent understanding macroeconomics, the overall economy and market systems. Our focus will be on the U. S. economy, but we will also examine other economic systems around the world. Among the topics we will cover are the role of money, the function of banks, Gross Domestic Product, and how fiscal and monetary policy shape the economy. In the spring trimester, students will embark on an entrepreneurial journey that will introduce them to the tools and skills required to develop a business plan. They will learn how to prepare financial statements, where to look for business opportunities, and what characteristics are needed to be a successful entrepreneur. Students will prepare a business plan for a product or service of their choice and present the business plan to the class at the end of the trimester.

International Relations (10+)

This course is designed to provide students with a broad introduction to the study of international politics and will focus on significant themes and debates in the arena of contemporary international affairs. The course will introduce students to theories and approaches that have been applied throughout history to understand contemporary issues. An emphasis will be put on case-study analysis, both as a tool for applying their knowledge of theory to the study of real-world events as well as evaluating competing political views. As so many of the topics studied in this course are the subject of ongoing debate and controversy in both national and international arenas, the course relies on active classroom discussion and debate as a means of understanding and evaluating all sides of each issue. The course uses a variety of texts and learning tools. Simulations, structured debate, documentary film analysis, and study of the daily news allow students to engage with the issues covered in this course.

Psychology (10+)

This course will provide a broad overview of the field of psychology, a social science. This overview will include the investigation of various topics such as professions and advances in the field of psychology, psychological research, the brain and nervous system, sensation and perception, sleeping and dreams, conditioning, memory, social psychology, and abnormal psychology. The goals of the course are to explore the ever-changing world of psychology as well as encourage students to become more critical thinkers about themselves and the world around them.

World History (10)

This sophomore course offers a range of critical topics and concepts that have shaped and influenced world history and our global society. Topics studied in the course range from revolutions and their effects on society and culture to discussions of current events and how the methods and interpretation of both the reporting and recording of global issues impact our world view. Examples of topics studied are The Holocaust and crimes against humanity in the 20th Century, a comprehensive study of The Arab World with a focus on women in Muslim societies today and the influence of the Qur'an on their daily lives, and a critical examination of imperialism and its overarching impact on international relations and cultural and political identity. Students develop an understanding of both the importance of global history and its relevance by learning how history is written, evaluating viewpoints, and understanding the force of historical expression.

World History Honors (10)

This sophomore course offers a range of critical topics and concepts that have shaped and influenced world history and our global society. Topics studied in the course range from revolutions and their effects on society and culture to discussions of current events and how the methods and interpretation of both the reporting and recording of global issues impact our world view. Examples of topics studied are the Holocaust and crimes against humanity in the 20th Century, a comprehensive study of The Arab World with a focus on women in Muslim societies today and the influence of the Qur'an on their daily lives, and a critical examination of imperialism and its overarching impact on international relations, cultural, and political identity. Students develop an understanding of both the importance of global history and its relevance by learning how history is written, evaluating viewpoints, and understanding the force of historical expression. Additionally, students read from a variety of texts and primary sources that offer insights into the events as well as opposing viewpoints with which to contend. Enrollment in this course requires departmental approval.

United States History (11+)

This course is offered to juniors and begins with a study of early America, the American Revolution, and the creation of the Constitution. The course then studies movements in U.S. history that forced the expansion of the Constitution to include all citizens of the United States: the Civil War and Reconstruction, Women' Suffrage, the Civil Rights Movement, and Native American Movements. Students study landmark Supreme Court decisions that created modern interpretations of the Bill of Rights as well as current issues being decided in the Supreme Court. The study of current issues facing the United States as a nation is fostered by a student-centered approach to inquiry and discussion.

United States History Honors (11+)

This course challenges juniors who show curiosity and aptitude that separates them from other U.S. History students but who have not elected to take the Advanced Placement class. It follows the same content curriculum as the U.S. History offering, but expectations of classroom leadership, communicating knowledge through a variety of media, and depth and scope of study are set at a higher standard. This course begins with a study of early America, the American Revolution, and the creation of the Constitution. The course then studies movements in U.S. history that forced the expansion of the Constitution to include all citizens of the United States: the Civil War and Reconstruction, Women' Suffrage, the Civil Rights Movement, and Native American Movements. Students study landmark Supreme Court decisions that created modern interpretations of the Bill of Rights as well as current issues being decided in the Supreme Court. The study of current issues facing the United States as a nation is fostered by a student-centered approach to inquiry and discussion. Enrollment in this course requires departmental approval.

AP US History (11+)

During the first half of the course offered to juniors, themes such as the development of the Constitution out of our colonial and revolutionary past, the evolution of the political party system, westward expansion, and the tensions leading up to the Civil War will be highlighted. During the second half of the year, we will focus on the impact of industrialization and urbanization, the development of America as a world power, and the tensions and adjustments of a multicultural society. Document analysis, analytical essay writing, and class activities such as debates or simulations, will be regularly employed to develop the themes under study. Enrollment in this course requires departmental approval.

International Relations Honors (11+)

This course is designed to provide students with a broad introduction to the study of international politics and will focus on significant themes and debates in the arena of contemporary international affairs. The course will introduce students to theories and approaches that have been applied throughout history to understand contemporary issues. An emphasis will be put on case-study analysis, both as a tool for applying their knowledge of theory to the study of real-world events as well as evaluating competing political views. As so many of the topics studied in this course are the subject of ongoing debate and controversy in both national and international arenas, the course relies on active classroom discussion and debate as a means of understanding and evaluating all sides of each issue. The course uses a variety of texts and learning tools. Simulations, structured debate, documentary film analysis, and study of the daily news allow students to engage with the issues covered in this course. The honors offering challenges students who show curiosity and aptitude that separates them from other International Relations students. The honors course expectations of classroom leadership, communicating knowledge through a variety of media, and depth and scope of study are set at a higher standard. Enrollment in this course requires departmental approval.

AP Psychology (12+)

Advanced Placement Psychology is offered to seniors and post-graduate students and is designed “to introduce students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice” (Advanced Placement Course Description in Psychology). The course is intended for strong students who are willing to challenge themselves to think and analyze at a college level in hope of earning potential college credit by scoring well on the AP Exam in May. By nature, AP Psychology is a survey course and will cover a wide range of topics, such as research methods, the biology of behavior, cognition, personality, and abnormal behavior. In addition to content the course will work on a variety of skills including research, writing, and synthesizing information. Enrollment in this course requires departmental approval.

Mathematics

Algebra I (9+)

Algebra I is a standard first-year course in the fundamentals of algebra. Its content includes using mathematical symbols, solving equations in one and two variables, graphing linear equations, solving systems of linear equations, using ratio and proportion, and solving word problems. It provides the foundation for studying geometry and more advanced algebra. A scientific calculator or a TI-84 is required for this course.

Geometry (9+)

Our geometry course is designed so that students can be actively engaged as they learn geometry; students “learn by doing” using inductive techniques. They learn to use the tools of geometry and perform investigations with them. Many of the investigations are carried out in small cooperative groups in which students jointly plan and find solutions with other students. Their investigations lead them to the discovery of geometric properties. In addition, students gradually learn about deductive proof, which allows them to explain why their discoveries are true. The objective of this course is to promote an intuitive understanding of geometric concepts and objects. After students come to understand a concept through experience they are introduced to the appropriate symbols and given opportunities to practice mechanics and problem solving. A scientific calculator or a TI-84 is required for this course.

Geometry Honors (9+)

This course is designed so that students can be actively engaged as they learn geometry; students “learn by doing” using inductive techniques. They learn to use the tools of geometry and perform investigations with them. Many of the investigations are carried out in small cooperative groups in which students jointly plan and find solutions with other students. Their investigations lead them to the discovery of geometric properties. In addition, students gradually learn about deductive proof, which allows them to explain why their discoveries are true. The objective of this course is to promote an intuitive understanding of geometric concepts and objects. After students come to understand a concept through experience they are introduced to the appropriate symbols and given opportunities to practice mechanics and problem solving. The depth and breadth of topics are expanded, and more deliberate connections are made with algebra. Most students from this course move into our Honors Algebra II class. Enrollment in this course requires departmental approval. A scientific calculator or a TI-84 is required for this course.

Algebra II (10+)

Algebra II reviews the topics introduced in Algebra I and expands upon them. Additional topics covered are absolute value equations and inequalities, polynomial functions, rational expressions, roots and radicals, and quadratic equations and their graphs. A scientific calculator or a TI-84 is required for this course. Prerequisite: successful completion of Algebra I.

Algebra II Honors (10+)

Honors Algebra II covers all the topics of Algebra II as well as introductions to logarithms, trigonometry, and often sequences and series. The class emphasizes critical thinking and problem-solving skills and encourages collaboration and communication. A TI-84 or a TI-Nspire CX CAS calculator is required. Prerequisite: honors grades in Algebra I and departmental approval.

Precalculus (11+)

Precalculus provides the background for the mathematical concepts, problems, issues, and techniques in preparation for studying calculus. The fall term focuses on six basic functions: identity, squaring, cubing, reciprocal, square root, and absolute value. In the winter term, the focus switches to exponential and logarithmic functions, and the spring concentration is on trigonometric functions. Each function is approached graphically through transformations and algebraically through equations. A TI-84 or a TI-Nspire CX CAS calculator is required. Prerequisite: Algebra II.

Precalculus Honors (11+)

Honors Precalculus is an accelerated course intended to prepare students for success in single- and multivariable-calculus and beyond. Honors Precalculus begins by investigating polynomials, exponents and

logarithms, and analytic trigonometry. These fundamental topics are then used to explore vectors, parametric equations, polar and spherical coordinates, and introductory calculus topics including series, limits, and derivatives. Emphasis is placed on multi-step problem solving. A TI-84 or TI-Nspire calculator is required. Prerequisite: Honors Algebra II and departmental approval.

Calculus (11+)

This course serves as a foundation for the basics of calculus in preparation for a college calculus course. It begins with a review of functions and their applications to develop numerical, graphical, and analytical techniques of problem solving. The concepts of limits, derivatives and integrals are introduced with an emphasis on applications and practical problem solving. A TI-84 or TI-Nspire CX CAS calculator is required. Prerequisite: Precalculus

AP Calculus AB (11+)

Advanced Placement Calculus (AB Curriculum) is a rigorous course in differential and integral calculus open to upper-class students with departmental approval. Completion of the course normally prepares a student to take the Advanced Placement examination. A TI-84 or a TI-Nspire CX CAS calculator is required. Prerequisite: honors grades in Honors Precalculus and departmental approval.

AP Calculus BC

Advanced Placement Calculus (BC Curriculum) reviews the AB Calculus curriculum and includes advanced calculus topics in preparation for taking the BC level advanced placement exam. The course is augmented with group projects and presentations. A TI-84 or a TI-Nspire CX CAS calculator is required. Prerequisite: successful completion of the calculus class or high honors grades in Honors Precalculus and departmental approval.

Statistics & Data Analysis (11+)

Statistics & Data Analysis is a full-year course designed to acquaint juniors, seniors, and post-graduate students with the major concepts of statistics and give them the tools to properly collect, analyze, and draw conclusions from data. Students use real-world data in their explorations and are encouraged to keep up with recent news and come in with examples of statistics being used by newspapers, magazines, and other types of media. Students in this course learn how to be responsible consumers of information. Charts, graphs, data, and polls presented to us as media consumers on a daily basis and a deep understanding of what we are looking at is imperative for drawing the correct conclusions. Students in this course will never be wondering when they will have to use the knowledge they acquire in "real life." Statistics has applications in almost every field of study, and this course provides students with a solid foundation for other statistics courses at the next level. A TI-84 or a TI-Nspire CX CAS calculator is required.

AP Statistics & Data Analysis (11+)

AP Statistics is a certified AP course, offered to seniors and post-graduate students, that uses the guidelines set forth by the College Board to guide the curriculum. From the AP website: "The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding." Enrollment in this course requires departmental approval. A TI-84 or a TI-Nspire CX CAS calculator is required.

Financial Math (12+)

In this class, seniors and post-graduate students explore the world of finance, with a focus on personal finance. The class investigates the details of saving, investing, budgeting, credit card debt, mortgages, and other types of loans while using statistical analysis and representations as a tool to better understand finance. The class largely uses project- and inquiry-based learning to develop a deeper understanding of these topics and the mathematics behind them.

Science and Engineering

Conceptual Physics (9)

Students will take a course in Conceptual Physics during their 9th grade year at Hebron. This class will focus on necessary scientific skills such as independent research, technical writing, scientific method, and experimental design under the umbrella of physical laws such as motion, force, work, and energy. Moreover, students will learn the principles of design and engineering by solving problems related to the motion of objects. Students in this course will be required to complete several collaborative projects in which they will design their own experiments, collect data, and present their major findings both in writing and through presentation. In this way, teachers of this course will strongly emphasize lab and writing skills to reinforce the idea that science is inquiry based and that students must always draw conclusions by first generating evidence. This course is meant to provide students the backbone skill set that will help them be more successful as they move into upper-level science coursework.

Chemistry with lab (10+)

Chemistry is a full-year introductory laboratory course that presents a thorough study of the fundamental principles of atomic structure, periodicity, chemical bonding in the three phases of matter, chemical reactions with stoichiometry, energy and the concepts of equilibrium. Classroom lectures and discussions are supplemented with frequent laboratory exercises utilizing experimentation on the micro-scale. The students learn to analyze data and then write reports on their results.

Chemistry Honors with lab (10+)

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AP Chemistry with lab (11+)

Advanced Placement Chemistry is a course for highly motivated students. The AP Chemistry course develops topics in atomic structure, periodicity, kinetics, equilibrium, electrochemistry, organic chemistry, thermodynamics and the descriptive chemistry of elements. Special attention is given to solving problems using these concepts. Laboratory work is extensive, including the preparation of various inorganic compounds, qualitative analysis of cations, determination of solubility products and equilibrium constants, potentiometric acid-base titrations, and

electroplating. A student completing the course will take the Advanced Placement examination in May. Enrollment in this course requires departmental approval.

Biology with lab (11+)

This introductory course, which integrates laboratory exercises and field studies with classroom discussion, emphasizes the continuity of life and the complementary nature of structure and function in the living world. Topics include ecological relationships between organisms, cell structure and function, energy transformation, cell division, genetics, and the structure and function of selected plant and animal physiological systems. This course continues to build upon scientific writing and lab-based skills begun in previous science classes.

Biology Honors with lab (11+)

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AP Biology with lab (11+)

The most rigorous course in Biology, the Advanced Placement course is designed to allow students to delve deeply into the patterns of structure and function in the living world. A high level of performance in previous chemistry and biology courses are a prerequisite for this course, and physics is recommended, which includes detailed class discussion, extensive laboratory work, and comprehensive tests. The biology prerequisite may be waived in the case of extraordinarily motivated students. Topics include (1) the processes that underlie evolution, driving biological unity and diversity, (2) the use of free energy in biological metabolic and maintenance processes, (3) biological information systems, and (4) the organization, function, and interactions of biological systems. Students completing the course will take the Advanced Placement examination in Biology in May. Enrollment in this course requires departmental approval.

Physics with lab (10+)

Physics requires students to learn to apply principles to problems encountered in everyday life and to perform laboratory exercises to gain hands-on experience with these principles. We use iPads and our Pasco sensor system to make detailed measurements of phenomena in laboratory experiments. We will also make use of the Hebron telescope to make detailed observations of the night sky. Topics explored in this class include classical mechanics, astronomy, cosmology, electricity and magnetism, and optics. Prerequisite/corequisite: Algebra II.

AP Physics C with lab (11+)

The most rigorous course in physics, AP Physics C is an introduction to calculus-based physics that qualified students may take concurrently with calculus. The course begins with a rigorous treatment of classical mechanics including Newton's laws, conservation laws, and oscillations. This course thoroughly prepares students to take the AP Physics C: Mechanics exam in the spring. Introductory topics in electromagnetism may also be covered, including electrostatics and Gauss's Law after the AP exam. Heavy emphasis is placed on working multi-step problems whose solutions require varied techniques. Laboratory work is a major part of this course and is intensive and wide ranging, allowing students the hands-on experience to gain a thorough understanding of the principles being studied. Pre/corequisite: Calculus or above and departmental approval.

Anatomy & Physiology (10+)

Anatomy and Physiology is a full-year elective course for those students who have successfully completed their biology and physical science requirements. This is an advanced course on the structure and functions of the human body. Students will gain an understanding of human anatomy and physiology that is geared towards topics and curriculum that students will see within a basic college-level course. Topics include the human muscular and skeletal systems, cardiovascular structure and physiology, the respiratory system, digestive system, nervous system, and homeostasis. Digital media, iPad applications, and presentation skills will be highlighted as well. Special focus in the areas of sports medicine, human health, athletic injuries, disease, and nutrition as well as hands-on lab work to emphasize each concept. Prerequisites: one year of biology.

Environmental Science (10+)

Environmental Science is a general survey course designed for students who wish to study topics related to natural systems (physical, chemical, and biological) and their intersection with human systems. Major areas of study will include but are not limited to oceanic and atmospheric science, global climate change, ecology, biogeochemical processes, conservation and sustainability, and the relationship between social justice and environmental justice. Students will examine environmental issues and investigate realistic solutions. Students will also learn how environmental data are collected and analyzed through applied inquiry-based experimentation in the lab and in the field. The class may be taught using Earth's systems, generally, or through a special lens such as marine science. The class is an introductory course and while a background in chemistry, biology, and physics is helpful it is not required.

Human Biology & Public Health (10+)

The Human Biology & Public Health is an elective course that will provide students with a global awareness of personal and community health education. Each student will gain a better understanding of human biology, biochemistry, disease, mental health, nutrition, medical treatments as well as the development aspects of children and young adults. An eclectic approach to the curriculum will provide each student with hands-on applications and an understanding of the variety of topics within this course. Research, presentations, laboratory exercises, group discussions, and a variety of technology techniques will be used to highlight each topic.

Kinesiology (10+)

This full-year elective provides students a basic understanding of the study of human motion through musculoskeletal anatomy, neuromuscular physiology, and basic biomechanics. The student will gain a better understanding of how the human body achieves its motions by applying hands-on applications of biomechanical principles and conduct research within proper body mechanics and techniques. Students will utilize motion analysis and the latest technology to study several sports and activities as well as the science behind weight training, cardiovascular training, neuromuscular resistance, plyometrics, and the importance of dynamic movements. The goal of this course is for students to learn and apply the basic concepts within physics dealing with movements and forces within the human body. Students should gain valuable information that will help them throughout a basic college-level kinesiology course. Prerequisite: Algebra II; corequisite: Precalculus.

Principles of Engineering | E2 (10+)

The Principles of Engineering class is the second class in Hebron's EDIE (Engineering, Design, Innovation, Entrepreneurship) Pathway. In Principles of Engineering students build on the skills they gained in E1 as they encounter more engineering-specific topics that they might study in a postsecondary engineering course. The major units of this class are Energy and Power, Materials and Structures, Control Systems, and Statistics and Kinematics. Students develop their skills and understanding of concepts through activity, project, and

problem-based learning. Throughout this course, students will also gain the knowledge and skills to use high-end technical machines including our materials tester, laser cutters, CNC router, and different 3D printers. Students will continuously document their work in engineering notebooks and practice communicating their solutions to their peers and members of the greater community. This class also helps students to develop strategies to direct their own learning in and out of the classroom. Prerequisite: Successful completion of one of Hebron's E1 classes and Algebra 1.

Applied Engineering | E3 (11+)

The Applied Engineering class is one of the two, third-year options in Hebron's engineering pathway (E3). This class expands on the many topics in the Principles of Engineering class (E2) with a larger focus on applying these concepts to understand typical manufacturing processes, product design, robotics, and automation. In this class students will extensively use VEX robotics kits to design, build, and program their own machines. Students will develop their knowledge and skills of Computer-Aided Design (CAD) and will learn to operate Hebron's advanced manufacturing equipment including: Computer Numerical Controlled (CNC) mill, Fused Deposition Modeling (FDM) 3D printer, stereolithography (SLA) 3D printer, vinyl cutter, and laser cutter/engraver. Students apply the knowledge and skills gained in this course as they collaborate to design, build, and program factory system models. This course culminates with a capstone project where students design, build, program, and present a manufacturing process capable of creating a product and use the school's equipment to produce that product. Prerequisites: Principles of Engineering (E2).

Social Innovation | E3 (11+)

Social Innovation is one of the two, third-year options in Hebron's engineering pathway (E3). Students will learn about social entrepreneurship and consider how organizations make social and environmental impacts. They will learn about global, complex problems and possible solutions by investigating case studies. By examining real-world examples, they will consider these issues at all levels from problem identification, to funding, to innovative solution design, to advocacy for impacted peoples, and finally, to delivery of solutions. In a capstone experience, the students will use what they have learned about Engineering and Design cycles in E1 and E2 classes and collaborate to solve social and environmental issues in our local community. Prerequisites: Principles of Engineering (E2).

Engineering Capstone | E4 (12+)

The E4: Engineering Capstone is the culminating class in the E.D.I.E pathway. In this year the students identify and research a problem of interest. Students identify stakeholders and design a solution for them utilizing the skills and knowledge acquired at the E1 through E3 levels, going through the entire engineering cycle during the process. Prerequisites: Applied Engineering (E3) or Social Innovation (E3).

Visual and Performing Arts

Chorus (9+)

Chorus is open to all students, regardless of experience, who are interested in vocal music performance. It is also an outlet for the student who enjoys singing and wants to learn more. Students will learn ensemble singing skills, proper breath support, and ear training through the study and performance of a wide range of vocal repertoire.

Chorus meets twice a week and does not conflict with the student's class schedule. Students receive a graded half-course credit.

Orchestra (9+)

This course provides the opportunity to create music in a vibrant and full orchestra setting, giving practice and performance opportunities in a large ensemble. Through performance, students develop improved note reading, instrumental techniques, and learn ensemble skills. The group will also focus on improving the language we use to discuss music by completing written reflections providing feedback, insight, and/or interpretation of particular musical concepts. Orchestra meets twice a week and does not conflict with the student's class schedule and is open to any student with instrumental experience. Students receive a graded, half-course credit.

Freshman Design (9+)

An introductory visual arts course for 9th graders, Design is the foundation course for further studio work in the arts. In it, students explore concepts of two-dimensional design and develop a basic awareness of color theory through work in a variety of media. This is a year-long course that meets two periods a week.

Studio Art 2D (10+)

This course is an entry point to the visual arts curriculum, exposing beginners to techniques and media used to create a variety of two-dimensional (2D) artworks. Students will develop skills in drawing, painting, printmaking, collage, basic photography, and/or design. Students will learn and apply the elements and principles of design and color theory in compositions from observation, research, and/or imagination. Through feedback, students will evaluate and respond to their own work and that of their peers.

Advanced Studio Art 2D (10+)

This course is an upper-level studio course in which students will develop and refine technical skills and create two-dimensional (2D) compositions with a variety of media in drawing, painting, printmaking, collage, and/or design. A student entering this course will already have a good grasp of the elements and principles of design and composition. Students will practice, sketch, and manipulate the structural elements of art to improve mark making. Emphasis will be placed on craftsmanship, revision, and artistic exploration. Student artists use an art criticism process to evaluate, explain, and measure artistic growth in personal or group works. Students will have the opportunity to focus on a medium in which they are interested. Prerequisite: Studio 2D or department approval.

Audio Recording & Production (10+)

This course introduces students to the world of digital music recording and production. Students have the opportunity to become familiar with many of the same tools and technologies found in today's professional recording studios. Students will gain experience in recording techniques, explore the world of digital sound manipulation, and learn about tools and instruments available on iPads and other devices. This class is project based with students planning and making compositions individually and evaluating and refining works as a class. This class is open to students regardless of prior experience in music.

Ceramics (10+)

Ceramics introduces juniors, seniors, and post-graduate students to basic hand-building procedures as well as wheel-thrown techniques. The course will place emphasis on the use of the elements of art and principles of design to produce a variety of functional and non-functional projects constructed in clay. Students will explore ceramic production from a historical as well as a modern perspective, and students will be exposed to a variety of professional clay artists. Through ceramics as a medium, students will also be encouraged to explore and develop

personal expression, powers of observation, and self-assessment as it relates to their own work and the work of others.

Digital Art & Media (10+)

This course explores digital art and media as a method of creating art and design. Students will build a foundation in the basic techniques of Adobe Photoshop, Illustrator and After Effects learning to edit, manipulate, and build art. Students will apply these skills as they explore and develop conceptual ideas to create animations, image compositions, original artwork, logos, and other student-driven projects. Students will understand how digital mediums are used in fine art making, animation, graphic design, marketing, entertainment, fashion design, and beyond. Each student will develop a digital portfolio throughout the course while also evaluating and responding to their own work and that of their peers. It is suggested that students have some experience in drawing and/or painting, but this is not required.

Photography (10+)

This course focuses on understanding the basic operations and functions of a single-lens reflex camera and the manipulation of its settings to achieve a specific result. Students will learn about photographic elements of art and principles of design, composition, and lighting. They will explore the history of photography, learning about its scientific and technological developments, important innovators in the field, and relevance within diverse cultural contexts. Students will write and speak about aesthetic, technical and expressive qualities in a photograph, learning to critique their own and others' work. Using Adobe Photoshop and Lightroom students will manage and creatively alter digital images. Further, into the year students will learn alternative and traditional darkroom processes. Throughout the course, students will be expected to pursue their own creative voice as well as critically analyze the use of visual media as a means of communication in our society today. Students are encouraged to bring their own 35mm digital single-lens reflex (DSLR) camera, but if not students must have their own SD memory card.

3D Design & Build (10+)

This is an intro-level course that is based on the design cycle. Students will develop a working knowledge of the design cycle and problem solving. Students will also be introduced to mechanical drawing. Assignments will be introduced as problems that students will then develop solutions for using both individual and group planning sessions. Detailed sketches, mechanical drawings, and material lists are then the next step in the process. Finally, students bring their ideas into reality by building out their plans in a variety of materials. Past projects have included wooden furniture such as Adirondack chairs, tables, and desks as well as clothing made from recycled fabrics and trash fashion. Other topics that are integral to the course are the ethical use of resources and materials and the responsible and safe usage of tools.

Advanced Photography (11+)

Advanced Photography is designed for any student who has completed a beginning level photography class and is motivated to work ambitiously and independently throughout the year on developing a body of work. Students will build upon already acquired skills, advancing their techniques with exposure control, creative camera techniques, and Photoshop techniques. This will include the study of art theory concepts such as the elements of art, principles of design, composition, lighting, camera handling techniques, commercial applications in photography, current trends in photography, and photography-related careers. Because of the project-based nature of the class, students will be able to learn at their own pace and create meaningful pieces to add to their portfolios. Possible projects include: independent focus work, long exposure techniques, macro photography, photo alterations, landscape photography, abstract photography, and light painting photography. Students may

also pursue commercial photography including advertising, product photography, sports and portrait photography. Enrollment in this course requires departmental approval.

AP Studio Art | 2D, 3D, or Drawing (11+)

Advanced Placement Studio Art 2D, 3D, or Drawing is offered to juniors, seniors, and post-graduates and is a rigorous experience for extremely invested and skilled art students. It is a year-long exploration in portfolio development that includes a concentrated area of focus. Successful students may be granted college credit. Enrollment in this course requires departmental approval.

Advanced Ceramics (12+)

This course is offered to seniors and post-graduate students and builds upon the skills and techniques developed in the intro ceramics class. Students will further develop their hand-building skills and work towards consistency and accuracy of results with their wheel-thrown pieces. Emphasis will be placed on craftsmanship, revision, and artistic exploration. Students will focus their efforts to create ceramic vessels of matching sizes and shapes and designing challenging forms like teapots, lidded vessels, and bottles. Students will be introduced to the process of raku firings and encouraged to experiment with a variety of clay bodies and glazing techniques. In the final trimester, students will be encouraged to concentrate on a specific area of their choosing, working semi-independently to develop a collection of their work suitable for display. Prerequisite: ceramics and departmental approval.

World Language

Spanish I

The principle goal of this course is for students to develop the knowledge and use of the Spanish language. This course will consist of speaking, reading, and writing in Spanish at the beginner's level. This course consists of units that will cover the present tense as well as an introduction to the past tense towards the end of the year. Students will learn to recognize vocabulary and understand spoken and written Spanish.

Spanish II

The principle goal of this course is for students to develop the knowledge and use of the Spanish language and to further their studies at an intermediate level. This course consists of units that introduce the remaining tenses in the Spanish language. Students will learn to add details to their speaking and writing, and to express themselves more confidently in these tenses. Prerequisite: Spanish I or equivalent.

Spanish III

The principle goal of this course is for students to develop the knowledge and use of the Spanish language and to further their studies at an advanced level. This course will focus on vocabulary and writing development. Students will read short stories, plays, poems, news reports, and short excerpts from books. Students will also continue to work on their Spanish through auditory means and further develop their own speaking abilities. Prerequisite: Spanish II or equivalent.

Spanish IV/V

This course focuses on literature, history, and cultural studies of Spain and Latin America covering from medieval Spain and pre-Colombian history in Latin America to the 21st century. Written assignments will consist of 1-3 pages in length and readings which will range from chapters to full books. Knowledge of Spanish-speaking cultures and geography is used to interpret bodies of work and unifying themes. Students are expected to take a leadership role in this class and guide discussions (in Spanish) among their peers. Prerequisite: Spanish III or equivalent.

French I

Children learn their mother tongue by speaking it, and students learn *la langue française* the same way. The majority of class time is spent speaking conversationally, singing folk songs, “reading” picture books, and playing simple childhood games. Grammar rules are learned by listening to correct usage and repeating it. Reading and writing in French begins after the students have built a strong foundation of daily-life vocabulary.

French II

Working on the foundation of nouns and adjectives learned in French I, students expand their French vocabulary with verbs. The students learn to conjugate regular and irregular verbs in several different tenses including the perfect, imperfect, future, and conditional. The students meet these tenses in their literature study of fables and fairy tales and they perfect them with the culminating project, writing an original story with over 30 required grammatical elements. Prerequisite: completion of level 1 with teacher recommendation to advance.

French IV

Students study French history and read major literature pieces from each epoch. The students marvel at the wonders of the Chauvet Cave, snicker at Caesar’s observations of the Gauls, fight alongside Roland and Charlemagne, delight in the wit of Molière and Voltaire and witness the start of the French Revolution through the eyes of a Bastille guard. The students write formal essays, perform original plays, and sing songs and recite poetry from each particular time period. Prerequisite: Completion of French III with teacher recommendation to advance.