THE KNOX SCHOOL

St. James, New York

Course Catalogue 2017-2018

From the Dean of Academics

Virginia Riccardi, Assistant Head of School

The Knox School's academic program is progressive in nature and provides students with opportunities to experience types of discovery and learning that will prepare them for life in college and beyond. Our 21st Century curriculum is grounded in Core Values – **Respect, Responsibility, Integrity, Courage, Kindness and Scholarship.**

Our Middle School program is intentionally designed to challenge our youngest students and allow them to explore, discover, and cultivate new interests. Each term, they are exposed to the World Languages of Spanish, French and Chinese. They explore the Performing Arts, Ceramics and Studio Art, and participate in mandatory, after-school enrichment programs in Study Skills, Humanities and STEM.

At the Upper School level, students are exposed to United States and World History, World Literature, Algebra, Geometry, Calculus and Statistics, and a host of lab sciences including Chemistry, Biology, Physics, Anatomy and Physiology and Earth and Space Science. Our focus on writing across the curriculum as part of our school-wide philosophy requires that Upper School students enroll in 2 writing courses in addition to their core English class – Academic Writing in 9th or 10th grade and College Writing as a junior or senior. We also offer a comprehensive selection of interesting electives and Advanced Placement (AP) courses, and a Graduate Capstone program.

For students who wish to major in visual art, we offer AP Studio Art, a portfolio development class taught by the esteemed members of Visual and Performing Arts department who have college-level teaching experience and hold advanced degrees. Our Post Graduate program offers SAT and ACT Prep classes, a College Writing Course, a Graduate Seminar, Core classes in English and Math and Science, and Strength and Conditioning, Athletic Training and Study Hall.

The academic program at Knox is never static, but a dynamic entity of our School upon which we are always building. Please use this year's guide to carefully consider your course of study at The Knox School. If you have any questions, please reach out—vriccardi@knoxschool.org or 631-686-1600 ext. 409.

Semper Ad Lucem!

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Please refer to our Student and Family Handbook for more specific Academic Policies & Procedures.

Courses are offered based on student interest and enrollment. Not every course listed herein is guaranteed to be offered in an academic year.

Academic Program

The School's Mission, Purpose and Philosophy permeate all aspects of the academic program at Knox, from the design of the curriculum to the daily schedule and yearly calendar. Small class sizes, a challenging core curriculum and highly personalized instruction by caring and skilled teachers enable Knox students to develop the knowledge and confidence necessary to gain admission to and find success in selective colleges and universities. At Knox, learning extends beyond the classroom with numerous opportunities for intellectual stimulation and cultural enrichment. We believe that positive daily interaction shared by students, teachers and advisors fosters not only the acquisition of knowledge but a lifelong love of learning.

The Middle School serves students in grades six through eight and is a "cell phone free" student body. Students turn their cell-phones in to a secure space in the Dean of Student's office when they arrive at school and retrieve their phones at the end of the day. Day students may elect to leave their cell phones at home. Boarders may leave their cell phones in their dorm room during the school day.

The Middle School curriculum is essentially fixed, with the course of study designed to provide a solid foundation in both content and skills for a smooth transition into the Upper School College Preparatory Program. Some Middle School students may be eligible to pursue Upper School credit in math and world languages. The study of world languages begins in grades 6 and 7. Students at this level study one trimester each of French, Spanish and Chinese in our Introduction to World Languages program. Eighth grade students may choose a level I language course in French, Spanish or Chinese. The appropriate use of technology and developing effective organizational and study skills are stressed across the Middle School curriculum as are research and study skills. The academic day ends at 2:55 p.m. Enrichment, a study skills lab, and study hall runs until 5 p.m. when buses arrive for day students. If a middle school day student elects to leave at 2:55 p.m., no busing will be available, and the parent(s) or guardian(s) will be responsible for arranging pick-up.

Middle School students in grades 7 and 8 have the option to compete in Upper School sports after school if they pass a qualifying physical exam, endurance test and are academically eligible. Sports run from 3:20 p.m. until 5:00 p.m. Some sports teams may hold mandatory practice outside of the regular school day and/or on weekends. It is the athlete's obligation to attend these practices.

The Upper School serves students in grades nine through twelve and PG and provides a core curriculum of challenging college preparatory classes, Advanced Placement courses and a generous complement of electives in all departments. Knox is committed to offering classroom instruction that is both engaging and challenging and encourages students to go "above and beyond" in their quest for academic growth and success. Honors credits are available in most areas of study and highly qualified Upper School students may work with the faculty to develop an independent study.

College Preparatory Diploma Requirements

English	4 Credits
Math	3 Credits: Algebra I, Geometry, Algebra II
Lab Science	3 Credits: Physical Science, Biology, + 1 more
History	4 Credits: World II, II U.S., plus one more
*World Languages	3 Credits: Consecutive in the same language
Visual and Performing Arts	2 Credits: one Visual, one Performing
Health and Wellness	½ Credit
Electives	3 Credits
Total Credits	**22 ½**

*May be exempt with appropriate documentation.

Scheduling

Knox follows a trimester system with exams at the end of each term. A full credit is granted for a one-year course, and up to two-thirds credit may be granted for approved courses taken for part of the school year. Credit will be granted for courses taken at other institutions with the approval of the Assistant Head of School.

As an institution dedicated to the education of young people, Knox reserves the right to change program standards if it is determined that said standards are not adequate in providing students the best education possible.

Online Courses/Independent Study

Qualified Upper School students may elect to take an online course through the University of Miami's Global Academy, the Online School for Girls, and Johns Hopkins Center for Talented Youth (CTY) or through EducerE. Students engaged in online courses must have prior permission from the Assistant Head of School to enroll in the course and qualify for scheduled preparation time during the academic day. Students must supply the Assistant Head of School access to their online supervising teacher with periodic updates on their progress. All grades earned through online courses will become part of the student's permanent Knox School transcript.

BOOST

The BOOST Department offers programs and support services designed to provide capable, college-bound students with the foundation and skills necessary to develop their abilities and to reach their personal goals for academic achievement and college admission. There are three BOOST courses: BOOST Language, BOOST Math and BOOST Executive Functioning and Organization Students are enrolled upon recommendation of current documentation and/or parental request. BOOST classes are taught either individually or in a small (no more than 3 students) group setting by qualified learning specialists or meet during one period of the student's schedule. BOOST teachers often foster communication and share pedagogical methodologies within the school community.

Advanced Placement and Honors

Students may request Advanced Placement study within certain disciplines. Students applying for placement into an Advanced Placement course must have a minimum average of "A-" in previous relevant coursework. PSAT scores and/or other achievement exam scores may also be considered. The student's formal request will be reviewed by the Advanced Placement Committee, which is composed of the Assistant Head of School, the department chairs, and the respective Advanced Placement teachers. Once approved, the student must complete all course requirements and expectations. Failure to do so may result in being asked to leave the Advanced Placement course. Generally, students are allowed to pursue two Advanced Placement courses in a school year.

Our Academic Program is College Preparatory and as such all classes are taught at an accelerated pace; however Honors credit may be earned on an individual basis by students willing to pursue a more challenging syllabus and assessment process. Students desiring Honors credit must go through an approval process with the Assistant Head of School.

Honors students are required to meet the expectations of the Honors syllabus. Honors must be declared prior to or before the end of the add/drop period of the first mid-trimester of a course and is a course-long commitment. Honors students are assessed at mid-trimester and at the end of each term. Three quality points for the Honors Program will be added to the student's GPA at the end of each trimester. Honors credit may not be available in every class.

- Please refer to our Student and Family Handbook for more specific Academic Policies & Procedures.

- Courses are offered based on student interest and enrollment. Not every course listed herein is guaranteed to be offered in an academic year.

English Department

Requirements: Four years of English (grades 9-12)

Knox English classes give students the opportunity to read widely, think deeply, and communicate clearly. In every English classroom, you will find our students actively engaged in writing responses to a text, as well as vigorously discussing the nuances of what they read in terms of literary elements and personal connections. It is here that students learn how to listen respectfully to different opinions, as well as to express their own perspectives with clarity and logic. Throughout all Knox English courses, students are taught to support their written and spoken arguments with convincing evidence. The development of a strong and disciplined mind is the best way we can prepare our students for the rigors of college as well as the challenges they will face in higher education and beyond.

Full-Year Courses

(001) English 6- Coming of Age
In English 6, students explore the theme of coming of age through classic literature. Through the use of grammar exercises, writing prompts, and course texts, students develop a deeper understanding of how to convey their ideas both orally and through their writing. The course provides students with opportunities to improve their written communication skills, develop critical thinking skills through reading and writing, and learn the proper mechanics for research-based writing.

(002) English 7- World of Fiction
In English 7, students learn to appreciate the roots of English literature. Through the use of various genres, students develop a deeper understanding of the diverse forms fiction can take, from graphic novels to medieval epic poetry. Students explore the effects those different forms have on the reader. The course provides students with opportunities to improve their written communication skills, develop critical thinking skills through reading and writing, and learn the proper mechanics for research-based writing.

(003) English 8- Survey of Fiction and Non-Fiction Texts
English 8 introduces non-fiction literature to the students along with fiction texts. They will be introduced to major authors and various genres to prepare for High School. Non-Fiction texts are consistently connected to other disciplines and will relate to the fiction works. Students will continue working on responding to texts in their writing and answering specific prompts in a 5-paragraph essay format. Included in this writing is creating a strong argument and supporting evidence with citations from texts or research. Additionally, students will continuously work on grade-appropriate grammar and vocabulary skills.

(010) English I, H(012) (9) - World Literature
The English I curriculum exposes students to a survey of world literature and the historical backgrounds that frame each reading.

Through the analysis of fiction and nonfiction texts, poetry and plays, as well as through grammar exercises and writing prompts, students develop a deeper understanding of how to convey their ideas both orally and through the written word. The course provides students with opportunities to improve their written communication skills, develop critical thinking skills through reading and writing, and learn the proper mechanics for research-based writing in preparation for college academics.

(013) English II, H(014) (10) - American Literature

English II focuses on literature from American authors that focus on key events from American History. Poems, plays, essays, and novels directly correspond with lessons they learned in history previously and will continue to learn in their future History classes. The course encourages students to draw connections between fiction and history. Through the analysis of these texts and through grammar exercises and writing prompts, students develop a deeper understanding of how to convey their ideas both orally and through the written word. The course provides students with opportunities to improve their written communication skills, develop critical thinking skills through reading and writing, and learn the proper mechanics for research-based writing in preparation for college academics.

(015) English III, H(016) (11) - Survey of Non-Fiction Texts

The 11th grade English curriculum introduces students to non-fiction literature and analyze the literature in both oral and written form. Through the analysis of fiction and nonfiction texts, poetry and plays, as well as through grammar exercises and writing prompts, students develop a deeper understanding of how to convey their ideas both orally and through the written word. The course provides students with opportunities to improve their written communication skills, develop critical thinking skills through reading and writing, and learn the proper mechanics for research-based writing in preparation for college academics.

(017) English IV, H (020) (12) - College Prep Literary Analysis

The English IV curriculum exposes students to a survey of literature to prepare them for their college experience. Through the analysis of fiction and nonfiction texts, poetry and plays, as well as through grammar exercises and writing prompts, students develop a deeper understanding of how to convey their ideas both orally and through the written word. The course provides students with opportunities to improve their written communication skills, develop critical thinking skills through reading and writing, and learn the proper mechanics for research-based writing in preparation for college academics.

Honors English Designation (9-12)

Students who are interested in further challenging themselves and earning Honors credit may enroll in an English course with Honors Designation. The assignments demand deeper academic work and additional readings related to the material within the course curriculum. Students must maintain a grade of 85% or above to remain in Honors.

English Elective Courses

(full-year, unless noted otherwise)

(052) Introduction to Journalism Through Documentary Photography (10-12)

This course will expose students to the works of many great documentary photographers and photojournalists. In this class, the students will create a documentary project of their own start to finish that will distill down, a fraction of the world in motion, to a set of images that convey an exposure or strong message. Students will tell creative, well-researched, carefully crafted, true stories about people, about places and how they relate to a pressing issue. The process of physically making images and writing about those images is powerful and revealing in a variety of contexts and settings. By teaching literacy through photography, students will become both more artistic, better writers and, will learn how images can be used to stimulate conversations about social issues and become agents of change.

(085) Survey of College Freshman Texts (12-PG)

This course will allow students to explore fiction and non-fiction texts that they may encounter in a freshman-level college curriculum in English or Literature. Emphasis will be placed on reading and interpreting the works and creating compelling, written arguments on a prominent theme in the selected literature for the course. The drafting and revising process will also be stressed to prepare students for the rigors of college writing.

(081) *AP English Literature and Composition (11-12)

AP English Literature and Composition focuses on intensive reading and analysis of literature. Students are expected to understand how authors use language to provide meaning to the audience. Throughout the course, students master literary elements such as diction, figurative language, imagery, tone, theme and symbolism. AP Literature and Composition also incorporates advanced writing that focuses on critical analysis of texts. The goal of writing in AP Literature and Composition is to master the skills of interpreting college-level texts and writing clear and concise explanations and analyses of such texts.

(018) *AP English Language and Composition (11-12)

AP English Language and Composition is an intense reading and writing program with an emphasis on rhetoric and how language is used in a variety of texts from multiple time periods. Complex writing assignments will encourage students to develop their abilities to write various modes of essays at a collegiate level. The course is predominantly based on non-fiction texts, visuals and other sources including, but not limited to: pictures, films, music and advertisements. This course is designed to develop and build upon complex practices, and does not include the teaching of foundational skills. At the completion of this course, students are expected to have developed the following: effective use and understanding of rhetoric thorough understanding of AP Language vocabulary, effective writing skills, ability to analyze various sources for information, proper incorporation of sources in writing (attribution), and analytical reading skills.

**AP courses are offered based on student interest, enrollment and instructor availability and are subject to change at the discretion of Administration.*

Middle School Writing (6-8)

(078) Writing 6
This course focuses on creating the "perfect" paragraph. Students learn how to create a strong topic sentence, locate and provide supporting details and write effective concluding statements. Throughout the term, students develop their well-created paragraphs into short essays, which will help prepare them for other inter-disciplinary writing pieces. (1 term; required).

(079) Writing 7
In Writing 7, students focus on the structure of a well-developed essay. Students learn how to create attention-grabbing introductions ("hooks") with strong thesis statements. They also work on building transitions between paragraphs to improve the flow of their writing. By the end of the term, students will be able to write a complete, five-paragraph essay with a convincing thesis statement, proper evidence and supporting details. (1 term; required).

(080) Writing 8
This course introduces students to the MLA format required to complete all of their current and future writing assignments. Incorporation of direct quotations from the texts and a completion of a works- cited page are stressed. Students practice and master the art of creating strong introductions and conclusions, and editing and revising their essays. (1 term; required).

Upper School Writing (9-12)

(083) Academic Writing (9-10)
This course focuses on MLA skills including preparing a works-cited page and incorporating in-text citations. Students practice and master the necessary skills to write a proper academic paper on dynamic topics. Practice includes analytical essays, response papers and research papers. This course prepares students to start thinking outside of the five-paragraph model and begin writing more advanced essays that require higher level thinking and the examination of outside sources.

(075) College Writing and Presentation (11-12)
This course is designed to prepare students for the rigors of college writing. Students continue to work with MLA format and are introduced to APA format. Students learn to enhance their writing skills by focusing on format and development of details. A writing workshop-style of teaching is used, requiring students to complete multiple steps including peer and self-edits. This course prepares students for public speaking and presentations that will be expected of them in college, and encourages students to overcome public speaking anxiety and develop strong delivery skills.

(076) Graduate Capstone Project (12-PG)
This course is designed to develop college-level writing skills with a focus on research. Students will learn to be aware of the perspectives of others and use those perspectives to examine their own insights on strong topics. They will practice making intentional choices while learning to defend and justify their logic while connecting ideas and concepts across disciplines. Students will choose and explore a topic, issue, or idea of individual interest while designing a year-long study to answer a research question in 5,000 words or more.

(084) Graduate Seminar (12-PG)
Graduate Seminar is designed to allow PG students an opportunity to explore a wide variety of personal and academic topics that will assist them in their future academic and professional careers. Some topics include: test taking and college preparatory skills, collegiate learning strategies, time and stress management skills, ethics, conflict resolution, and mindfulness will be explored through real-world simulations and in-class exercises. Upon completion of this class, students will be prepared to enter their respective colleges and universities with an increased level of confidence in their organizational, academic, and life-management skills.

(087) The Art of Publication (9-12)
This is an online-based, credit-bearing class that meets once per week during community period club time. Students in this course are responsible for creating and designing The Knox School's three publications: Roseleaves (yearbook), Scribblers (literary magazine) and Honeybee Chronicle (campus newspaper). Each student will be responsible for a portion of each publication by a set deadline and will be strictly supervised until all publications are sent to the printer in May.

History Department

Requirements: Four years of History (grades 9-12)

The History Department at Knox strives to teach students to "think like a historian." The development of historical thinking skills aids students in their understanding of primary and secondary source research and encourages them to think independently and critically. Our teachers incorporate group-centered learning activities to test student knowledge, engage students in the learning process, and encourage creativity among all individuals.

Full-Year Courses

(301) History 6: The Eastern Hemisphere
The 6th grade history course unveils the interaction of peoples throughout the ancient and medieval world for our youngest and most curious students. The interdependence of cultures and the significance of cultural diffusion and its impact are at the forefront of the material studied. Individual and group project-based assessment is frequently used to gauge student learning.

(296) History 7: U.S. History (Early Amerindian to 1865) &
(303) History 8: U.S. History (1865 to 2001)
History 7 and 8 are designed as introductory courses to United States History broken into two time periods (see above). In accordance with middle school goals, critical thinking and analytical interpretation are useful skills that are mastered during the course of the year. Students begin to explore essential questions about the foundation and growth of the United States on the North American continent, and how this history has influenced life in the United States today. Students explore the music, art, and literature of the eras in their political, social and economic context. Students come to understand and recognize changes and patterns in American culture from the colonial period to the present through readings, classroom discussion, projects and independent research. Students stay abreast of current events and make comparisons between the past and the present.

(347) World History I (9: Early Human History to 1500)
Students explore World History in grades 9 and 10 through the lens of recurring themes from the rise and fall of civilizations past and present. During the first year, students chronicle the human experience around the globe from prehistory in ancient India, China, the Fertile Crescent and along the Nile, up to the European Age of Exploration. Students examine global interactions between peoples and cultures, with particular emphasis on migration, warfare, religion, the arts, politics, and trade. Over the course of the year, students think critically about these and other issues, and in the process, develop important intellectual and analytical tools from structuring an argument and academic composition to research and oral presentation skills.

(348) World History II, H (358) (10: 1500 – Post-Middle Ages to present-day)
World History II is a course designed to enlighten students' about past and present civilizations. Students learn about civilizations and events from the Post-Middle Ages to present-day. Students explore such topics as the earliest civilizations, the Middle Ages, the Industrial Revolution, World War I and World War II. While the course is a study in "world history" there will be special emphasis placed on European history. **Prerequisite:** World History I or equivalent 9th grade History class.

(349) U.S. History, H/Pre-AP (355) (11)
United States History is a survey course beginning with the European colonization of America through the 21st century. The course concentrates on the development of American culture, its diversity and multicultural context, and the ways its people are unified by values, practices, and traditions. Students study the major social, political, and religious developments in United States history, and are required to use a variety of intellectual skills and analytical tools to demonstrate their understanding of major ideas, eras, themes, developments and turning points. The development of reading, writing, and oral communication is emphasized through the preparation of written assignments and oral presentations. **Prerequisite:** World History II or equivalent 10th grade History class.

(309) AP United States History (11, 12)
This is a one year course, recognized by College Board, designed to test student knowledge of historical thinking skills and major course themes throughout American History. Material includes an in depth study of the European colonization of America through present day. *Open to Upper School students who have successfully completed World History II and or Honors United States History and have received permission from the AP Committee.*

(367) AP U.S. Government and Politics (12) is a one year course, recognized by College Board, including core social studies curriculum designed to give students a working knowledge of the mechanics of government and politics at all levels. Topics include the nature, structure and functioning of government in American society, the role of special interest groups and individuals in government, the electoral process and the rights and responsibilities of citizenship in a democratic society. *Open to Upper School students who have successfully completed* United States History *or* AP US History *and have received permission from the AP Committee.*

(368) Political Science (12)
This class will encourage an understanding of the American and other national political systems, with emphasis on the origins and evolution of rights and civil liberties. This will enhance student political participation and empower them with the knowledge to affect change to the global status quo. Using pressing contemporary problems, students gain insight into how governments (and the public and private interests that influence them) formulate their policies toward one another across national boundaries. We will examine topics of international issues such as the global response to warfare, peace, migration, post-colonialism, terrorism, poverty, and genocide. This course encourages Knox students to carefully evaluate political information and make compelling arguments for those opinions, to critically analyze relevant theories and concepts, apply them appropriately, and engage in these diverse topics with the concern of a global citizen.

Honors History Designation (9-12)
Students who are interested in further challenging themselves and earning Honors credit may enroll in a History course with Honors Designation. The assignments demand deeper academic work related to the material within the course curriculum. Students must maintain a grade of 85% or above to remain in Honors.

History Elective Courses

(full-year, unless noted otherwise)

(332) AP Psychology (11-12) (336 - Intro to Psychology without AP Exam option)

AP Psychology is a social science course recognized by the College Board, and gives students a foundation in the major areas of study in psychology, including, but not limited to: scientific methods, biopsychology, human development, cognition, and individual and group behavior variation. The focus of this course is to help students understand psychology as a scientific discipline, as well as to increase the student's confidence in discussing and writing about psychological principles in a scientific manner. **Prerequisite:** Successful completion of World History II and approval from the AP committee.

(371) Micro Economics (11)
(370) Macro Economics (12)

Beginning with the basic principles of Economics, students are introduced to the fundamental tools of micro and macroeconomic analysis. Microeconomics deals with consumers, firms, markets and income distribution. Macroeconomics deals with national income, employment, inflation and money. Students apply their knowledge to problem-solve issues facing today's economy via individual and group project-based assessments. Students visit Wall Street and the NYSE.

(365) Introduction to Philosophy and Ethics (11, 12)

What does it mean to be a "good" person? How can we determine what is right, what is wrong, and how to evaluate different ethical dilemmas? In the first part of this course, students will debate questions addressed within moral philosophy and the various answers offered by philosophers throughout history from Plato and Aristotle to Immanuel Kant and John Stuart Mill. While examining theories of virtue and vice, consequentialism, and deontology, students will be taught to read, explicate, analyze, and evaluate philosophical literature. Students will also be confronted with other classic questions in different fields of philosophy. We will discuss the natures of knowledge (epistemology) and reality and being (ontology). Can we be certain that we exist or that our external world exists? That God exists? Are the mind and the brain identical? If they are two separate entities, how are they related? Finally, we will discuss free will and how our examination of moral philosophy in many ways hinges on this debate. What is it, and do we have it? Is it compatible with the idea that everything in the universe is determined? Is free will a necessary condition for holding people responsible for their actions? Employing the Socratic method, students will be confronted with examples from regional, local and global issues, and they will learn to apply the techniques of philosophy in order to think critically and make more sound and informed decisions.

Mathematics Department

Requirements: Three years of Mathematics (Algebra I, Algebra II, Geometry)

The Knox School Mathematics Department recognizes the need for strong mathematics skills in all students' lives, and strives to provide a comprehensive foundation of knowledge. Every Knox student graduates with an understanding of the role that mathematics plays in his/her life, as well as the ability to use mathematics to solve everyday problems. Course offerings range from middle-school Math 6 through AP Calculus BC. Middle School students who qualify may enroll in beginning Upper School Mathematics courses.

Full-Year Courses

(101) Math 6
As our 6th grade students arrive excited to start middle school, Math 6 introduces them to middle school math in fun and exciting ways. The purpose of Math 6 is to enhance basic math skills that were taught throughout elementary school and allow students the time to become comfortable with and master these skills. Students explore topics such as number sense and operations, using formulas, problem solving, basic geometry, and interpreting graphs and data.

(104) Pre-Algebra (7)
All units of study for Pre-Algebra coincide with the core content for assessment for middle grade mathematics. The major units of study for this course are: Integers, expressions and operations, factors and fractions, rational numbers, equations and inequalities, ratio, proportion, percent, functions, linear equations, and graphing. Students who excel in Pre-Algebra may be exempted from Math 8 and have the option to enroll in Algebra I. Prerequisite: Math 6.

(099) Math 8
Students are enrolled in Math 8 to solidify the foundation needed to excel in Algebra I. This year-long course focuses on the number system, expressions and equations, functions, geometric principals, and bivariate statistics. Students who excel in Pre-Algebra may be exempted from Math 8 and have the option to enroll in Algebra I. Prerequisite: Pre-Algebra.

(110) Algebra I (Accelerated 8 or 9)
Students in Algebra I are introduced to basic algebraic topics including real numbers, linear relations and functions, linear equations, linear inequalities, polynomials, and factoring. This is a manually-intensive course that does not require the use of a calculator, which allows students to fully understand mathematical concepts. **Prerequisite:** Pre-Algebra or similar course.

(114) Algebra II (10,11)
Students in Algebra II analyze and identify relationships among functions. They become proficient in solving and graphing quadratic functions and equations. Students also firm up their understanding of using absolute values, radicals, exponents, and logarithmic functions. Students become comfortable and proficient in solving trigonometric equations and in graphing their solutions. This course is cross-listed with Pre-Calculus. **Prerequisite:** Algebra I.

(112) Geometry (10, 11)
Geometry is a branch of mathematics that addresses questions of shape, size, relative

position of figures, and the properties of space. During the first and second terms, spatial relationships are introduced and include an in-depth study of triangles and quadrilaterals. Students explore volume, surface area, and the ability to use logic and geometric reasoning to prove mathematical relationships during the third term. **Prerequisite:** Algebra I.

(139) Calculus (12)
Calculus is designed to prepare students for AP Calculus (AB or BC) and AP Statistics, and includes the study of a variety of functions and their graphs: linear functions, absolute value, square roots, quadratics, polynomials, rational expressions, and exponential, logarithmic, and trigonometric functions. It also includes analytical trigonometry, inverses, and sequences. Students will begin to learn the concepts of derivation and limits. This course is cross-listed with Algebra II. **Prerequisites:** Algebra II and/or Pre-Calculus.

Mathematics Elective Courses

(full-year, unless noted otherwise)

(134) Statistics, AP Statistics (241)
Statistics develops appreciation for, and skill in, applying statistical techniques in the decision-making process. Topics include: Descriptive statistics, probability, inference, methods of data collection, organization of data, and graphical techniques for exhibiting data together with measures of central tendency and variation. Specific subjects include binomial and normal distributions, hypothesis testing, and confidence intervals. Students will use multiple representations to present data including written descriptions, statistics, formulas, and graphs. Estimating with confidence, testing a claim, comparing two population parameters, inferences for regression, and chi-square procedures are also included. Students will work on extensive and comprehensive word problems, including actual AP questions on a regular basis. **Prerequisites:** Pre-Calculus and Departmental approval.

(119) AP Calculus AB
AP Calculus AB is designed to prepare students for the Advanced Placement exam. Students learn functions, derivatives, integrals, limits and the ability to use this knowledge to solve geometric, numerical, algebraic, and verbal problems. Differential equations, exponential functions, application of the integral, and summations will also be introduced. Students will work on extensive and comprehensive word problems including AP questions on a regular basis. **Prerequisites:** Pre-Calculus and Departmental approval.

(130) AP Calculus BC
AP Calculus BC is designed to develop and expand students' understanding of Calculus and provide experience with its methods and applications. Students review concepts presented in Calculus AB in greater detail and expand their study of Calculus to include concepts presented in the AP Calculus BC program and beyond. Students will learn how to apply Calculus using extensive and comprehensive word problems that will appear on the AP exam. **Prerequisite:** Successful completion of AP Calculus AB.

**AP courses are offered based on student interest, enrollment and instructor availability and are subject to change at the discretion of Administration.*

Science Department

Requirements: Three Credits of Lab Science (grades 9-12)

The Knox School Science Department strives to spark curiosity in its students about the wonders of the scientific world around them. Our curriculum is driven by the processes of inquiry, problem-solving and discovery, and learning is intentionally relevant. Knox students become scientifically literate and learn to be effective problem solvers. Through hands-on, engaging activities that extend beyond the walls of the classroom, they come to realize that science is more than facts - it is using a computer to program a robot to complete a series of tasks, exploring our campus waterfront as a living, learning lab during Biology class, using CAD software and 3D printers to engineer and design a multitude of projects, or even competing in a Science Bowl at Brookhaven National Laboratory, or a LEGO FIRST Robotics Competition.

Full-Year Courses

(201) 6th Grade - Physical Science
Sixth-grade science students begin their Knox careers as "mini-scientists." Class time includes instruction, hands-on activities and labs, and group projects that allow students to be introduced to the basics of chemistry and physics. Students also study and experiment with the fundamental laws of motion, allowing them to define the movement of universal forces such as gravity, acceleration, and friction. The successful completion of the course prepares the sixth-grade students for their future science courses.

(199) 7th Grade - Life Science
This fundamental introduction to life sciences increases seventh-grade students' awareness of the natural world and introduces them to basic principles of scientific inquiry. The course covers a variety of topics, starting with microscopic cells and building to the larger principles of the ecology and natural systems. Throughout the course, students will be utilizing the basic principles of scientific inquiry and lab experiments as a means to prepare them for later courses of study.

(197) 8th Grade - Earth Science
Throughout the year, eighth-grade students engage in a variety of activities designed to introduce them to the larger-than-life processes that influence everything from tides, to the destructive volcanoes of the Ring of Fire. The course covers a wide array of topics, including the geological processes that shaped the world around us, and the astronomical processes of the universe. Upon successful completion of the middle-school science sequence, students are well-prepared to enter the Upper School and succeed in the sciences.

(230/231) Health (9-12)
Upper School Health is designed to allow teens to discuss issues that affect them in a safe environment with trained educators and professionals. Units covered include physical fitness, psychological health, the dangers of drug and alcohol use, sexuality, and infectious diseases. Students examine contemporary public health problems through the news and media and will be encouraged to make positive lifestyle changes. *This course is two terms and is required for graduation in New York State.*

(203) Physical Science (9- lab course)
Throughout this course, students discover the relationship between the physical sciences and daily life by exploring the fundamentals of chemistry, biology, and physics to prepare them for full year classes in these areas. Lab activities and individual and group projects will be more in-depth and complex than the middle school science experience. Fulfills lab course requirement.

(213) Biology (9-10 - lab course)
Biology is the larger umbrella under which the study of living things occurs. This course serves as a gateway to understanding scientific interactions throughout the living environment, and gives students the tools to make predictions about the natural world. By utilizing the scientific method, students investigate the natural world, both conceptually and through hands-on and in-the-field lab work. Throughout the course, students gain exposure to the many branches of biology, and work towards understanding the role and impact of humans on the natural world. The primary skill of scientific investigation is one of the most important and basic skills; this course serves to cultivate that, and teach students to purposefully engage with the world. **Prerequisite:** Physical Science or similar 9th grade science course; fulfills lab course requirement.

(216) Chemistry (11 - lab course)
Chemistry touches our lives almost everywhere and every day - in medicine, the clothes we wear, the games we play, as well as the industries that produce consumables used by people on a regular basis. In Chemistry, students design and conduct experiments using a variety of laboratory techniques and technology, apply stoichiometric concepts to chemical reactions, analyze atomic structure and how it relates to bonding and periodicity, and apply chemical concepts to reactions and apply gas laws to explain natural phenomena. **Prerequisite:** Biology; fulfills lab course requirement. *Note: Chemistry is strongly recommended for college-bound students and is a must for future study in any science or health-related field.*

(218) Physics (11-12)
This course allows students to take a formal look at many of the physical aspects of our universe; from basic fundamentals all the way up through counter-intuitive (but experimentally verifiable) principles. Time is dedicated to the study of Modern Physics, including discoveries, theories, and current research. Students explore Newtonian Mechanics and the various aspects of matter in motion and energy, then delve into Waves and Light. The course concludes with a study of Electricity and Magnetism. *Open to eleventh and twelfth grade students who have successfully completed a lab science and Algebra I.*

(190) Fundamentals of Equine Science (9-12)
This course allows students to explore equine history, breeds, identification, conformation, and judging. As the year progresses, students learn concepts in anatomy, physiology, nutrition, health, equine facilities and management and career opportunities. This course promotes the development of cross-curricular skills in Math, English and History. Students learn to communicate effectively through writing and language as well as develop and use critical thinking skills. *Open to Upper School students who are equine enthusiasts, equestrians, or simply curious about horses.*

(191) Equine Science II (10-12)
In Equine Science II, students will take a more in- depth look at the following equine topics: fundamentals of riding, teaching riding methods, judging trends, therapeutic riding, purposes of different riding equipment and tack, equine health and management with specific focus on equine anatomy, diseases, first aid, emergency procedures, pharmaceuticals, senior horse health management, diagnosing lameness and nutrition as related to performance and health. Our third term will focus on working

in the equestrian world and exploring the topics of veterinarian, vet technician, farrier, research, event managers, stable managers, massage, chiropractic and acupuncture therapists, equestrian marketing, professional trainer and judging competitions. Students will develop cross curricular skills dealing with math, English, and social studies which coincide with the topics focused on during class. Skills will include writing and language as well as continue to develop and use critical thinking skills. **Prerequisite:** Fundamentals of Equine Science.

(253) AP Biology (11-12)
AP Biology is an upper school elective offered for students who meet The Knox School AP criteria, and who have demonstrated a strong interest and dedication to life sciences. Students in AP Biology work towards successful completion of the College Board curriculum and sit for the AP Biology Exam. The class uses the framework laid out by the College Board in tandem with investigative labs. The goal of the course it to prepare students for a university-level Biology class, and if eligible, test results may be used as an exemption from introductory Biology in college.

(229) AP Chemistry (11-12)
This course will demonstrate how chemistry is related to our daily lives, develop problem solving skills, and also develop a student's ability to think clearly and express their ideas. It is designed to be the equivalent of a general chemistry course which is normally taken during the first year of college. Depending on your AP exam score and choice of majors in college, you may or may not fulfill the laboratory science requirement at the higher education level.

Advanced Placement Chemistry provides a basis for the development of the fundamentals of chemistry with an emphasis on inquiry and critical thinking skills. Laboratory work is a vital portion of the course and uses a variety of different technology and lab ware. The technology will include graphing calculators, LabPro devices, graphing and data analysis software and various chemistry apparatus.

This course requires a working knowledge of chemistry and algebra II. The pace will be quicker than a typical high school chemistry course, uses a college level text and lab work, and also requires more time than the typical high school course. Home work completed for the class will be done using the WebAssign program.

(260) AP Environmental Science (11-12)
The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. **Prerequisite:** Two years of high school laboratory science, specifically, one year of life science and one year of physical science.

**AP courses are offered based on student interest, enrollment and instructor availability and are subject to change at the discretion of Administration.*
Preferential enrollment will be given to Seniors. **Prerequisite:** Biology; Juniors and Seniors only.

(265) AP Physics C: Mechanics
AP Physics C follows the most recent description as noted by the AP College Board and is equivalent to a first-year college Physics class for Science and Engineering students. It is intended to prepare students for the AP Physics C Exam and explores topics such as Mechanics, Electromagnetism, Waves and Fields, Optics, and Modern Physics, including discoveries, theories, and current research. The development of critical thinking skills is

an integral part of Physics, therefore, most labs are open-ended and inquiry-based. In addition, students will be required to present solutions to problems during peer instruction activities. *Open to Upper School students who have successfully completed Physics and Pre-Calculus.*

(236) AP Physics C: Electricity and Magnetism
The Physics C: Electricity and Magnetism course is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

(266) Anatomy & Physiology
Anatomy and Physiology is designed for students who are interested in pursuing a career in fields related to the human biological system. This course covers the basics of human anatomy and physiology, including anatomical terminology, basic biochemical function, cells and tissues, and the skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory and reproductive systems. The course includes lab work, but does not fulfill a lab requirement. Students work individually and in groups to prepare themselves for college-level sciences. Preferential enrollment will be given to Seniors. **Prerequisite:** Biology; Juniors and Seniors only.

STEM Courses

(264) Introduction to Robotics
This course introduces students to the world of robotics and programming. Beginning with the history of robotics, students come to an understanding of how robots function as an integral part of today's society. Working in our STEM lab, students take a hands-on approach to the fundamentals of machine logic and automated problem solving with an emphasis on the basics of movement and physical interaction with the local environment. *Open to Upper School students.*

(262) Advanced Robotics
Advanced Robotics further explores robotic assembly, architecture, and capability, and careers available in the field. Through understanding the diversity and power of each area of robotics, students work collaboratively in a competitive proposal-solution environment. Learning will be fast-paced and hands-on, with real world problem solving at the center of the coursework. *Open to Upper School students who have successfully completed Introduction to Robotics.*

(268) Theory of Everything
The Theory of Everything is a project and discussion based science course dedicated to finding a better understanding of our place in the universe. Students will explore an all encompassing view of the universe as we know it, from the big bang to the theoretical heat death, and everything in between. The course will give both a macro and micro level overview of the many fields of science, including Astronomy, Astrophysics, Engineering etc. as well as an exploration of humanity's story this far, and what the future might look like. With the lenses of the class covering so many fields of science, the discussion can be focused on the interests of the students.

(263) Engineering and Electronics

Students are introduced to mechanical, electrical, civil, and environmental engineering in this practical, innovative course designed to pique student interest in the field. Through investigation and exploration, students will complete basic engineering projects using hands-on training and real-life engineering solutions.

World Language Department

Requirements: Three consecutive years of same foreign language (8-12)

Learning a foreign language is a cornerstone to a college preparatory, liberal arts education. The goal of the World Language Department at The Knox School is to make foreign language learning relevant, authentic, and engaging for students while teaching them to communicate effectively and genuinely in the target language through total language immersion. In class daily, students speak, listen, read and write in the target language while gaining an understanding and appreciation of the cultural practices, perspectives, and current events connected to the countries where the targeted languages are spoken. Personal motivation combined with the acquisition of tools for lifelong language learning drive student achievement of departmental and personal goals.

Full-Year Courses

(399) Introduction to World Languages
This survey course is designed for 6th and 7th grade students to explore three languages over the course of the academic year: Spanish, Chinese, and French. Their exposure to each language, though only one trimester long, introduces them to basic linguistic skills such as vocabulary building, pronunciation, forming simple sentences and questions, listening comprehension, and recognizing Chinese characters. Students also develop insight into the cultures of the various countries linked to these languages. This course gives students the opportunity to discover which language they would like to continue studying beginning in 8th grade at level I and continuing throughout their education at Knox.

(400) Chinese I
Chinese I is an introductory level course in Mandarin taught by a native speaking teacher. Students begin their exploration of the Chinese language by learning basic conversational skills, pronunciation, Chinese characters, and Chinese culture. They learn through various methods such as songs, games, stories, videos, and culturally relevant, authentic objects. Each student is paired with a native Chinese speaking student in order to practice conversation and share cultural insights throughout the school year.

(447) Chinese II
Chinese II builds on the skills learned in Chinese I. It is designed to reinforce and further develop Chinese language skills in listening, speaking, reading and writing. The goal is for students to speak Chinese comfortably through expressing opinions and feelings in daily conversations. Additionally, students explore Chinese culture through hands-on activities, projects and presentations, which furthers their understanding of modern China. This course will integrate technology in the learning of the Chinese language and follows the national standards for foreign language education. **Prerequisite:** Chinese I.

(451) Chinese III
Chinese III builds on the skills learned in Chinese II. Students moves towards greater fluency in Chinese language skills in listening, speaking, reading and writing. This course will integrate technology in the learning of the Chinese language and follows the national standards for foreign language education. **Prerequisite:** Chinese II.

(418) Spanish I
Spanish I is a beginning level course for students with little or no prior experience in Spanish. The fundamentals of Spanish are introduced through vocabulary and grammar, as well as oral and written communications. At the end of the course, students are able to communicate on a fundamental level both orally and in writing, and understand basic aspects of Spanish-speaking cultures.

(420) Spanish II
Building upon Spanish I, this course introduces more complex and varied grammar, vocabulary, and verb tenses, along with more refined and detailed sentence structures. Students will continue their studies of Spanish-speaking cultures. Students are expected to communicate in Spanish. **Prerequisite:** Spanish I.

(422) Spanish III
This intermediate-level course focuses on refining skills acquired in Spanish I and II. This involves a more advanced study of grammar through the use of short readings in Spanish. Emphasis is also placed on the ability of students to demonstrate communicative competency, both orally and in writing. This course is taught in Spanish. **Prerequisite:** Spanish II.

(448/437)Spanish IV/V
This advanced course focuses on the history and culture of Spanish-speaking countries, along with a continued study of grammar. Classes are taught in Spanish, and students access electronic news media to enrich both their study of the language and their understanding of current cultural events. Students also read a short novel in the target language. **Prerequisite:** Spanish III.

(404) French I
French I is a beginning level course for students with little or no prior experience in French. The fundamentals of French are introduced through vocabulary and grammar, as well as oral and written communications, rich visuals, and technology. At the end of the course, students are able to communicate on a fundamental level both orally and in writing, and understand basic aspects of French-speaking cultures.

(412) French II
Building upon French I, this course introduces more complex and varied grammar, vocabulary, and verb tenses, along with more refined and detailed sentence structures. Students will continue their studies of French-speaking cultures. Students are expected to communicate in French as this is a full-immersion-level course. **Prerequisite:** French I.

(414) French III
This intermediate-level course focuses on refining skills acquired in French I and II and involves a more advanced study of grammar through the use of short readings in French. Emphasis is also placed on the ability of students to demonstrate communicative competency, both orally and in writing. This course is taught only in French. **Prerequisite:** French II.

(434/444) French IV/V
This advanced course focuses on the history and culture of French-speaking countries, along with a continued study of grammar. Classes are taught in French, and students access electronic news media to enrich both their study of the language and their understanding of current cultural events. Students also read a short novel in the target language. **Prerequisite:** French III.

Visual and Performing Arts

Requirements: 1 VA credit and 1 PA credit during Upper School to graduate

The Visual and Performing Arts are characterized by a rich and active history at The Knox School. We believe that the Arts are an essential element in our lives. To facilitate this understanding, we continue to take advantage of all of the rich resources around us. In doing so, we hope to build a positive sense of "place" for the Arts in the students' daily lives both now and as adults. As a department, we hope to instill an appreciation of the arts by building a stronger sense of self through awareness, relaxation, expression and confidence. As human beings, we are forever enriched by the arts and the artists who dare to create.

Full-Year Courses

(491/544/545) Middle School Arts Experience
This course introduces Middle-School students to the crafts of Studio Art, Ceramics, and Dance, through one-term courses. The students are grouped by grade into small, intimate teams of explorers. They learn to take risks and challenge themselves to share their unique perspective through art. All Middle-School students enroll in this course sequence.

(860) Middle School Performing Arts
This full-year course is designed to help Middle School students explore music and theatre, discover where their passion for the arts lies, and develop their skills in each genre. Students learn the fundamentals of vocal production, music theory, and acting, while exploring major periods and artists from classical music, modern theatre, and Broadway. All middle school students enroll in this course.

Visual Arts Courses:

(494) Media Arts
This full-year introductory course focuses on the practical operation and creative possibilities of digital photography and video using a Digital SLR. This course explores digital capture, computer editing using Adobe Photoshop, and output techniques utilizing professional Epson printers. Students should have a digital camera with manual capabilities which will shoot stills and video. Open to Upper School students with an interest in photography.

(516) Photography I
This course serves as a full-year introduction to photography as a fine arts medium with a focus on black & white 35mm film shooting, developing, and printing. This course emphasizes the technical aspects of photography through demonstration, readings, and hands-on experience. Open to Upper School students with an interest in photography.

(490) Media Arts II
This course combines the skills learned in Photo I and Media arts and moves students to the advanced mechanics and aesthetics of digital and 35 mm photography digital imaging skills and output techniques. *Open to the Upper School students who have successfully passed Photography I and/or Media Arts.*

(509) Studio Art I
This course allows students to examine the major concepts of studio art. They begin with

drawing then move on to explore painting, printmaking, and various other media of their choice. While learning and improving their technical skills, they will also be learning the concepts of line, spatial relationships, and creative expression. Students will progress from the cornerstone of art (drawing) through to printmaking. *Open to Upper School students with an interest in painting or drawing.*

(495) Studio Art II
Studio Art II allows students to continue to develop the skills gained in Studio Art I and move on to generating pieces that reflect their personal creative style. Possible media include acrylic, watercolor, and tempera painting, as well as printmaking, quilling, batiking, and collaging. *Open to Upper School students with an interest in painting or drawing who have completed Studio Art I.*

(565) Ceramics
Ceramics is a full-year course designed to develop the students' interest and skills in the creation of ceramic arts, including the artistic process from conception to firing. Students will also discover major artists and explore how their work influenced the history of ceramic arts. *Open to Upper School students with an interest in ceramics.*

(498) AP Studio Art
This course is meant for students who need to develop a portfolio for acceptance to competitive art schools or who are interested in a rigorous and focused study in art. Students will develop a quality portfolio that demonstrates mastery of concept, composition and execution in 2-D design, and will be submitted to the College Board for credit.

Performing Arts:

(570) Choir
This course is designed to develop students' understanding of the art of vocal performance, particularly as a choir. Students in this course explore vocal music from various periods, styles, and cultures, and

develop an understanding of the original social and cultural context for each piece of music studied. They work to develop their ability to sight-sing, building on a strong foundation in music theory, through the study of solfege. Students also build confidence in their skills through regular performances at school events and at each trimester recital. Students also attend two local concerts featuring major choral repertoires. Open to Upper School students with an interest in singing and the ability to match pitch.

(525) Theatre
Theatre is a full-year course designed to develop students' understanding of the various arts involved in the creation and production of theatre. Theatre students explore various crafts associated with the arts of acting, playwriting, designing, and directing. Students develop their understanding of the business of theatre and the variety of jobs available to those who have a passion for theatre and theatrical production. Students present their work at each trimester recital and attend two professional theatre productions. Open to Upper School students with an interest in theatre; preference given to students in grades 11 and 12.

(572) Stagecraft
Stagecraft is a full-year course designed to introduce students to the theatrical arts associated with the technical elements of production, including scenic, costume, and lighting design; set construction and painting; lighting hanging, focusing, and gelling; and costume construction and alteration. Students learn to create scenographic models, ground plans, and front elevations. They provide all technical support for Knox Theatre productions and serve as technicians when appropriate for school events. Students also attend two professional theatre productions. Open to Upper School students

with an interest in backstage work, including working with power tools, computers, and lighting equipment.

(573) Advanced Placement (AP) Music Theory

This is a full-year course designed to prepare students for the Advanced Placement exam in Music Theory. Students will challenge themselves to develop a keen awareness of musical techniques present in significant works of the major musical periods and genres. Open to Upper School students in grades 11 and 12 who sing and/or play an instrument; placement at the discretion of the Chair of the Visual and Performing Arts Department.

PRIVATE MUSIC INSTRUCTION

Private lessons in voice and any musical instrument requested can be arranged at an additional fee. Students receive a private lesson during the class day once a week throughout the school year. No academic credit is earned for private music lessons.

English as a New Language (ENL) Department

Requirements: Students must receive a TOEFL score of 92 or higher with no subcategory less than 23 to be exempt from ENL.

The purpose of the ENL curriculum is to support overall academic achievement in preparation for college admission. The needs of international students seeking to develop competency in written and spoken English are met through daily instruction that integrates the core skills of reading, writing, listening, speaking and critical thinking into a holistic learning experience. To strengthen English language proficiency, the School promotes speaking English as often as possible. Students realize that communicating in English is not only courteous, but also enhances their ability to assimilate into American culture.

Full Year Courses

(619) Entering ENL
Prerequisite: NONE

(620) Emerging ENL
Prerequisite: Entering ENL

(621) Transitioning ENL I
Prerequisite: Entering ENL

(622) Transitioning ENL II
Prerequisite: Transitioning ENL I

(623) Expanding ENL I
Prerequisite: Transitioning ENL II

(624) Expanding ENL II
Prerequisite: Expanding ENL I

(628) ENL English
(630) ENL Science
(632) ENL History

Commanding (No ENL Required)
Prerequisite: TOEFL score of 92 or higher

NOTE: ENL courses at or below the Emerging level do not carry Upper School credit.

BOOST Department

Requirements: Students with 504 plans or IEP's may be eligible for academic support services. Visit our website (www.knoxschool.org) for a list of fees for these additional service.

Files will be reviewed on a case-by-case basis prior to the student's acceptance to The Knox School
The BOOST Department offers programs and support services designed to provide capable, college-bound students with the foundation and skills necessary to develop their abilities and to reach their personal goals for academic achievement and college admission. There are three BOOST courses: BOOST Language, BOOST Math and BOOST Executive Functioning and Organization. Students are enrolled upon recommendation of current documentation and/or parental request. BOOST classes are taught either individually or in a small (no more than 3 students) group setting by qualified learning specialists. Classes meet during one period of the student's schedule. BOOST teachers often foster communication and share pedagogical methodologies within the school community and serve as a liaison between the school and the home.

Full Year Courses

(943) BOOST Language
This is a language-based developmental program designed to provide specific individualized instruction in decoding, encoding, writing fluency and expression, reading fluency and comprehension, and basic grammar concepts. Self-advocacy issues, test-taking strategies and study skills (listening, note-taking and mnemonics, etc.) are also addressed in the BOOST classroom.

(942) BOOST Math
In BOOST Math, concepts that are being learned in class and/or foundational concepts are reviewed and reinforced. Emphasis on understanding the language of higher mathematical concepts is stressed. Students will be introduced to and develop mathematical concepts that are necessary for successful completion of the required mathematics program at The Knox School.

(944) BOOST Executive Functioning and Organization
BOOST Executive Functions and Organization focuses on executive functioning skills such as organization, planning, cognitive flexibility, task initiation and sustainability, memory, etc. This aspect of the BOOST Program is designed to help students succeed in all areas of their core academic classes.