

UPPER SCHOOL

2025 COURSE CATALOG



WAKEFIELD
SCHOOL



WAKEFIELD'S MISSION

To Foster the Character, Curiosity, &
Clear Voices the World Will Always Need

The greatest challenge in education is preparing people to thrive in a world that is rapidly evolving. Unprecedented societal and technological advances are coalescing to capture our imagination, influence how we learn, and shape how we interact with each other and with society. In response to these sea changes in the human experience, how we educate, and how students learn, must also evolve. Yet certain fundamental skills will always be necessary for the successful and joyful pursuit of lifelong learning: acting ethically, thinking critically, and communicating effectively. It is to the development of these timeless qualities that Wakefield School's mission is dedicated.

Visit us online at wakefieldschool.org



TABLE OF CONTENTS

| | | |
|----|--|---|
| 06 | UPPER SCHOOL COURSE OF STUDY | > |
| 11 | ENGLISH | > |
| 17 | MATHEMATICS | > |
| 25 | SCIENCE | > |
| 33 | SOCIAL STUDIES | > |
| 45 | VISUAL & PERFORMING ARTS | > |
| 57 | WORLD LANGUAGES | > |
| 65 | HEALTH SCIENCES | > |
| 71 | TECHNOLOGY & COMPUTER SCIENCE | > |
| 79 | INDEPENDENT STUDIES | > |
| 85 | SUMMER COURSES | > |

UPPER SCHOOL COURSE OF STUDY

The Upper School curriculum provides Wakefield students with a solid foundation in a diverse and integrated course of study. In addition to the core curriculum, students are required to take courses in Composition & Research each year and to select courses in World Languages and other areas of interest at the advanced level.

All students are encouraged to pursue the most challenging course load that they can successfully complete, while at the same time considering their own individual interests, abilities, desires, and activity load. By ensuring that students both pursue their already-existing passions and also uncover and develop new and unanticipated interests and potential, the Wakefield course of study is

designed to fulfill Wakefield's vision of developing capable, ethical, and articulate citizens who feel empowered to take ownership of their unique learning experiences.

Students may be counseled on their course selections by parents, teachers, advisors, the Head of the Upper School, and Wakefield's College Counselor.



GRADUATION REQUIREMENTS

All Upper School students must take the equivalent of five (5) academic courses each year. Students should work with their academic advisors to outline a tentative course sequence for their remaining years in the Upper School. A Wakefield School diploma is awarded when the student accrues a minimum of **27 credits**. Based on courses completed in Middle School, a student may carry some credits from Middle School into the Upper School.

| SUBJECT AREA | REQUIRED | RECOMMENDED | REQUIRED |
|-------------------------------------|-----------|--------------|--|
| English | 4 | | <ul style="list-style-type: none"> Literature 9: Philosophy & Literature Literature 10: American Literature Literature 11: British Literature <i>or</i> AP English Literature and Composition Literature 12: World Literature |
| Composition & Research | 4 | | <ul style="list-style-type: none"> Composition 9 Composition 10 Composition 11: Literary Criticism Composition 12: Senior Capstone <i>or</i> Senior Capstone (Honors) |
| Mathematics | 3 | 4 | <ul style="list-style-type: none"> Algebra I Geometry Algebra II <i>or</i> Algebra II / Trigonometry |
| Science | 3 | 4 | <ul style="list-style-type: none"> General Biology General Chemistry <i>or</i> General Physics One additional credit from Science <i>or</i> Health Sciences |
| Social Studies | 4 | 5 | <ul style="list-style-type: none"> World Civilizations I [required for class of 2026 and beyond] World Civilizations II US History <i>or</i> AP US History Government <i>or</i> Honors U.S. Government / DE Government Social Studies Elective [required for the class of 2025] |
| World Languages* | 2 | 3 | <ul style="list-style-type: none"> Two (2) sequential years in Spanish, French, or Latin |
| Visual & Performing Arts | 2 | | <ul style="list-style-type: none"> Two (2) Visual & Performing Arts Electives |
| Physical Education | 1 | | <ul style="list-style-type: none"> 9th Grade Health & PE course <i>OR</i> Participation in three (3) seasons of extra-curricular sports |
| Electives | 4 | 6-8 | <ul style="list-style-type: none"> Credits earned beyond the requirement in any subject are applied to the electives requirement |
| Total | 27 | 33-35 | |

*English fulfills the World Languages requirement for students for whom English is a second language.

ADVANCED PLACEMENT (AP) COURSES

Wakefield School offers numerous Advanced Placement (AP) courses. All AP courses follow the curriculum outlined by the College Board and the course syllabi are audited and approved by the College Board. The AP program is a cooperative endeavor with the College Board designed to:

- serve students who wish to pursue college-level studies while still in high school
- enable secondary schools that desire to offer these opportunities to do so
- enable colleges that participate to encourage and recognize achievement.

Scores on the AP exams range from zero (0) to five (5). Credits or exemptions are given at the discretion of the college or university.

Both Wakefield School and the College Board expect students who take AP courses to sit for the exam. Students arrange to take these exams through the College Counselor/AP Coordinator and their AP teacher. There is a fee for these exams which is paid for by the students.

Students taking AP courses may be required to complete relevant summer work or participate in a summer intensive offering prior to the start of school. Additionally, all students taking AP courses are required to review and honor the associated Statement of Understanding for each course. Students who do not honor the Statement of Understanding may be asked to withdraw from the course.

DUAL ENROLLMENT (DE) COURSES

Certain courses are designated as “dual enrollment” (DE) courses. These courses are taught in collaboration with local colleges and universities. Students who successfully complete these courses earn college credits for the affiliated college-level course.

Students will be limited to taking a maximum of three Advanced Placement and/or Dual Enrollment courses per year. Anyone who wishes to take more than three must seek approval from the Head of the Upper School.

DROP / ADD POLICY

In standard and honors courses, students may drop a course through the second (2nd) week of a course’s first semester without penalty. In AP classes, students may drop a course through the third (3rd) week of the first semester without penalty. **If a course is dropped after the no-penalty period, a “WP” (withdrawn passing) or “WF” (withdrawn failing) will be entered on the student report card and student transcript.**

A student, parent, or teacher may initiate the add/drop process through the division office.

Because students must carry a minimum of five (5) academic courses, if a dropped course brings the number of academic courses below five, the student must add another class.



A Wakefield School diploma is awarded when the student accrues a minimum of

27
CREDITS



ENGLISH

Wakefield's English Department strives to foster in each student his or her deepest curiosity. By offering literature of depth and complexity and by emphasizing both the power of solid rhetoric and the skill and discipline required to create it, we hope to graduate students for whom reading, thinking, and writing are inextricably linked, and for whom these activities are not simply skills needed to succeed in the academic arena, but disciplines that shape and inform their character.

Students pursue varied and broad areas of study, specifically mythology and ancient literature, philosophy and prose, and surveys of American, British, and world literature. In examining the historical context of works of literature, universal themes are exposed showing how human nature changes but also stays very much the same. Reading also reflects the ever-expanding literary canon and includes, whenever possible, the work of contemporary writers.

The most distinguishing characteristic of the department is the teaching of composition as a separate discipline. Whether endeavoring to become articulate citizens or confident communicators with "clear voices," students are provided numerous opportunities not only to choose what they wish to read, study, or discuss, but also to develop the skill set that will enable them to communicate in a way that is structured, coherent, and engaging.

The mission of our department is delivered by passionate, curious, inspiring, and supportive teachers who make the study of Literature a valuable and impactful experience and make a facility with composition and effective communication the hallmark of a Wakefield graduate.

LITERATURE COURSES 12

Literature 9: Philosophy & Literature

Literature 10: American Literature

Literature 11: British Literature

AP English Literature and Composition

Literature 12: World Literature

COMPOSITION & RESEARCH COURSES 14

Composition 9

Composition 10

Composition 11: Literary Criticism

Composition 12: Senior Capstone

Composition 12: Senior Capstone (Honors)

All students are required to complete four (4) years of Literature for graduation. In addition, students must successfully complete the 9th and 10th grade Composition classes, the 11th grade Literary Criticism class, and the 12th grade Senior Capstone class.

ENGLISH

LITERATURE COURSES

Literature 9: Philosophy & Literature

GRADE(S): 9

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The ninth-grade literature course “Philosophy and Literature” organizes the works of major philosophers, fiction writers, and poets under the philosophical tenets of Truth, Beauty, Goodness, and Commitment and asks students to see how thinking about these fundamental ideas has shaped Western literature. Students are encouraged to explore these ideas and arrive at their own conclusions regarding the role they play in their own lives. This course places emphasis on close reading of the text as the primary source of each student’s understanding and analysis. Emphasis is also placed on creating a safe classroom environment for this exploration, and on striking a balance between assisting them with the difficult material and encouraging their own free thought.

In addition, vocabulary is studied not only in preparation for the SAT and other standardized tests, but as a tool for enhanced communication and effective composition.

Literature 10: American Literature

GRADE(S): 10

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The tenth-grade literature course encourages sophomores to become more active and deliberate readers. Through sustained examination of a series of canonical works, students develop their capacity to read carefully and critically: to attend to details, to not only discern patterns and relationships within and among texts but to consider their meaning, and to develop evidence-based arguments pertaining to literary significance. Students are prompted to read and think independently, and they are encouraged and eventually required to express their ideas and participate in small groups and in class discussions.

In addition, vocabulary is studied not only in preparation for the SAT and other standardized tests, but as a tool for enhanced communication and effective composition.

Literature 11: British Literature

GRADE(S): 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

In the British Literature course, students devote themselves to reading, analyzing, and studying literary works (fiction, poetry, drama) written in — or translated into — English from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. The analysis provides rich opportunities for students to develop an appreciation of the ways literature reflects and comments on a range of historical experiences, institutions, and social structures. Students examine the choices literary writers make and the techniques they utilize to achieve purposes and generate meanings. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Vocabulary is studied not only in preparation for standardized tests but also as a tool for enhanced communication and effective composition.

AP English Literature and Composition

GRADE(S): 11

PREREQUISITE(S): Department Chair approval

REQUIRED FOR GRADUATION: Yes, in lieu of Literature 11

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

In the AP Literature course, students devote themselves to reading, analyzing, and studying literary works (fiction, poetry, drama) written in — or translated into — English from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. The analysis provides rich opportunities for students to develop an appreciation of the ways literature reflects and comments on a range of historical experiences, institutions, and social structures. Students examine the choices literary writers make and the techniques they utilize to achieve purposes and generate meanings. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Vocabulary is studied in preparation for standardized tests and as a tool for enhanced communication and effective composition.

In preparation for the AP Literature exam, students learn test-taking techniques to tackle the multiple-choice portion and essay-writing skills for constructing a defensible thesis for the prose, poetry, and free-response prompts.

Literature 12: World Literature

GRADE(S): 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

From joy to suffering, bewilderment to enlightenment, the twelfth-grade literature course asks the students the eternal question: What does it mean to be human? Through a study of literature, as well as a smattering of history, philosophy, art, religion, and mythology, students examine the ways in which artists have expressed the human experience and mankind’s purpose for being. Through close readings of major novels, plays, and poetry, students develop their own philosophical approach to the study and appreciation of literature and seek to understand how their individual lives fit into the universal human tapestry.

In addition, vocabulary is studied not only in preparation for standardized tests, but also as a tool for enhanced communication and effective composition.



COMPOSITION & RESEARCH COURSES

Composition 9

| |
|-------------------------------------|
| GRADE(S): 9 |
| PREREQUISITE(S): None |
| REQUIRED FOR GRADUATION: Yes |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

The ninth-grade composition course embraces the value of formal essays, informal writing, and reading in the process of learning to write well. The course has an autobiographical orientation, and for formal essay-writing, students work primarily in the personal essay format; students also invest considerable time to understand the finer details of creating a detailed research paper. Informal writing takes the form of both journal-keeping and responding to the work of a single professional writer read throughout the year. The grammar component of the course aims to refine students' current knowledge of the English language for practical use in both written and oral communication.

Composition 10

| |
|-------------------------------------|
| GRADE(S): 10 |
| PREREQUISITE(S): None |
| REQUIRED FOR GRADUATION: Yes |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

The tenth-grade composition course requires students to examine the impact and importance of style. Through learning to identify the presence of rhetorical and stylistic devices in a variety of compositions — advertisements, memoirs, political speeches, film reviews, short stories, poetry—students recognize and attend to the conventions of engaging prose. In turn, students experiment with and develop their command of these conventions in an effort to cultivate a unique voice and to express that voice in a way that is artful, rhythmic, and engaging. The course also supports students as they endeavor to strengthen their research skills and to pen evidence-based reflections upon the current events and controversies that pique their curiosity. The grammar component of the course aims to refine students' current knowledge of the English language for practical use in both written and oral communication, with special attention to matters related to parts of speech, pronoun case, subordination and coordination, and sentence variety.

Composition 11: Literary Criticism

| |
|-------------------------------------|
| GRADE(S): 11 |
| PREREQUISITE(S): None |
| REQUIRED FOR GRADUATION: Yes |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

This course helps students acquire the skills needed to produce the year's culminating work: the Junior Thesis, a fifteen-page paper of literary scholarship in which students contribute to a scholarly conversation about classic literary works. In this vein, students learn how to collect sources, organize notes, and pace the project. They follow their curiosity and ask a research question, develop a working thesis, and ultimately write and defend a thesis statement that will contribute to the conversation already developed in the scholarship. Students learn project management skills, develop their understanding of grammar, and experiment with different styles of writing. At the end of the course, students will not only have completed the Junior Thesis but refined their abilities in style, genre, and form.

Composition 12: Senior Capstone

| |
|-------------------------------------|
| GRADE(S): 12 |
| PREREQUISITE(S): None |
| REQUIRED FOR GRADUATION: Yes |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

The Senior Capstone project is the culmination of all that the students have learned about writing, research, presentation, rhetoric, and organization. In a yearlong exercise, students have the opportunity to embrace their curiosity and research whatever interests them.

Using the design thinking process, students navigate from topic selection to research to argument formation to outlining to drafting a final thesis that reveals their personal voice on the topic. They conduct personal interviews, give oral presentations, and engage in project planning to create a final product, equivalent to a twenty-page paper, in a format of their choosing.

Students seek guidance from members within the Wakefield community and from professionals in their field of study to assist this process. Upon completion of the thesis, students present their work to the student body and faculty at the Senior Capstone Day.

Composition 12: Senior Capstone (Honors)

| |
|---|
| GRADE(S): 12 |
| PREREQUISITE(S): None |
| REQUIRED FOR GRADUATION: Yes; in lieu of Senior Capstone |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

The Senior Capstone project is the culmination of all that the students have learned about writing, research, presentation, rhetoric, and organization. In a yearlong exercise, students have the opportunity to embrace their curiosity and research whatever interests them.

Using the design thinking process, students navigate from topic selection to research to argument formation to outlining to drafting a final thesis that reveals their personal voice on the topic. They conduct personal interviews, give oral presentations, and engage in project planning to create a final product, equivalent to a thirty-page paper, in a format of their choosing.

Students seek guidance from members within the Wakefield community and from professionals in their field of study to assist in this process. Upon completion of the thesis, students present their work to the student body and faculty at the Senior Capstone Day.

Honors students are required to meet regularly with a faculty advisor, to orally defend their final project to a faculty panel, and to complete additional assignments throughout the year.



MATHEMATICS

Offering a diverse range of classes, spanning from Algebra I to Multivariable Calculus, the Mathematics Department aims to cultivate a vibrant learning community. The goal of this department is to impart not only mathematical knowledge but also the analytical strength and logical thinking necessary to tackle complex problems. This philosophy envisions the development of a strong community of learners who recognize the profound insights that Mathematics provides.

With small class sizes and teachers who are readily accessible, students benefit from a supportive and engaging learning environment. This setting fosters not only academic connections with peers but also meaningful interactions with the faculty.

This department strives to ignite the learning process by embracing the recognition of mistakes and facilitating a journey of understanding. This approach empowers students to develop clear voices, resilience, and a profound grasp of mathematical concepts. Students have many opportunities for application and community contribution — whether working in the Wake-up Cafe to enhance number sense or engaging in peer mentorship to assist younger students with mathematical challenges. Through weekly study sessions, the freshman mentorship program further forges connections between incoming Upper School students and our Mathematics faculty.

The desired outcome is a well-rounded student equipped with academic skills and a sense of responsibility to contribute positively to their community. Through these experiences, students not only gain mathematical proficiency but also develop a commitment to making meaningful contributions to society.

MATHEMATICS COURSES 18

- Algebra I

- Geometry

- Algebra, Functions, and Data Analysis (AFDA)

- Algebra II

- Algebra II / Trigonometry

- Pre-Calculus

- Transition to College Mathematics and Statistics (TCMS)

- Applied Calculus

- AP Calculus AB

- AP Calculus BC

- AP Statistics

- Multivariable Calculus & Differential Equations

All students are required to complete Algebra I, Geometry, and either Algebra II or Algebra II / Trigonometry for graduation. Although students may complete their math requirements in advance of graduation, they are strongly encouraged to enroll in mathematics every year.

MATHEMATICS

MATHEMATICS COURSES

Algebra I

| |
|-------------------------------------|
| GRADE(S): 7, 8, 9 |
| PREREQUISITE(S): None |
| REQUIRED FOR GRADUATION: Yes |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

Algebra I expands on students' knowledge of variables, algebraic expressions, equations, and inequalities, and introduces students to functions, solving and graphing linear equations and inequalities, solving systems of equations, exponential functions, and polynomials. In this class, students develop the ability to explore and solve real-world application problems, demonstrate the appropriate use of graphing calculators, and communicate mathematical ideas clearly. This course lays the foundation for mathematical literacy that will help students be successful in every subsequent mathematics course. Students are prepared to continue to Geometry after the successful completion of Algebra I.

Geometry

| |
|-------------------------------------|
| GRADE(S): 8, 9, 10 |
| PREREQUISITE(S): Algebra I |
| REQUIRED FOR GRADUATION: Yes |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

Geometry is typically taken after successful completion of Algebra I. This course includes selected topics Euclidean plane, solid, analytic, and coordinate geometry. The primary goal of the course is to teach students using an inductive approach to help them understand the concepts and terminology of elementary Geometry. The course is taught as an abstract mathematical science where students learn to formulate conjectures, test their ideas, and employ reasoning to solve problems. By integrating skills and mathematical concepts from previous courses, students discover their application in Geometry and other disciplines. Successful completion of this course equips students for either Algebra II or Algebra II / Trigonometry as their next course.

Algebra, Functions, and Data Analysis (AFDA)

| |
|---|
| GRADE(S): 10, 11 |
| PREREQUISITE(S): Algebra I, Geometry |
| REQUIRED FOR GRADUATION: Elective |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

This course is designed to be a bridge course from Algebra I and Geometry to Algebra II, aiding students with their understanding of Algebra I skills in preparation for the skills taught in Algebra II. This course covers concepts involving mathematical modeling and data analysis, functions and behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data.

Algebra II

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|--|
| GRADE(S): 9, 10, 11, 12 |
| PREREQUISITE(S): Algebra I, Geometry |
| REQUIRED FOR GRADUATION: Yes (or Algebra II / Trigonometry) |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

Algebra II completes the student's mathematical requirements toward graduation. Content includes matrices, polynomial functions, rational exponents, radical functions, exponential and logarithmic functions, and radians. Graphing calculator skills are employed, with emphasis on translations and transformations of all graphs of various functions. Skills are taught first by hand and then expanded to graphing calculators to graph linear and quadratic equations, inequalities, and systems of equations.

Algebra II / Trigonometry

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|---|
| GRADE(S): 9, 10, 11, 12 |
| PREREQUISITE(S): Algebra I, Geometry |
| REQUIRED FOR GRADUATION: Yes (or Algebra II) |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

Algebra II / Trigonometry completes the student's mathematical foundation for entry into Pre-Calculus and AP Calculus. Content includes matrices, polynomial functions, rational exponents, radical functions, exponential and logarithmic functions, and radians, trigonometric functions in relation to triangles, and verifying identities. Graphing calculator skills are employed, with emphasis on translations and transformations of all graphs of various functions. Skills are taught first by hand and then expanded to using graphing calculators to graph linear and quadratic equations, inequalities, and systems of equations. Successful completion of this course will prepare a student to take Pre-Calculus as their next course.

Pre-Calculus

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|---|
| GRADE(S): 10, 11, 12 |
| PREREQUISITE(S): Algebra II / Trigonometry |
| REQUIRED FOR GRADUATION: Elective |
| LENGTH: Full Year |
| OFFERED FOR 2024-2025: Yes |

This course is both a rigorous review of many topics from previous levels of mathematics and an introduction to more advanced topics, concluding with the fundamental concept of differential calculus. Emphasis is placed on solving a wide variety of equations and inequalities and on the application of graphical and geometric analysis as a problem-solving technique. The graphing calculator is used to assist in visualizing and solving more complex types of problems, but it does not dominate the course. Rather, the fundamental nature of the course is the generation of pen-on-paper solutions to ensure the understanding of the basic set-up and algebraic manipulations required in problem-solving. An in-depth study of trigonometric functions and of conic sections and operations, both theoretical and applied, is an important aspect of the course. Finally, the study of sequences, series, and limits develops into the definition and application of differential calculus, including the solution of extreme value problems. Successful completion of this course prepares a student to take AP Calculus AB. With high teacher recommendations, a student could take AP Calculus BC as their next course.

MATHEMATICS COURSES (CONT.)

Transition to College Mathematics and Statistics (TCMS)

GRADE(S): 11, 12
PREREQUISITE(S): Algebra II or Algebra II/Trigonometry
REQUIRED FOR GRADUATION: Elective
LENGTH: Full Year
OFFERED FOR 2024-2025: No

Transition to College Mathematics and Statistics (TCMS) is a problem-based, technology-rich, third or fourth-year course developed to serve the large and diverse population of college-bound students whose intended program of study does not require calculus. The course will cover topics involving eight different units: Interpreting Categorical Data, Functions Modeling Change, Counting Methods, Mathematics of Financial Decision Making, Binomial Distribution and Statistical Inference, Informatics, Spatial Visualization and Representations, and Mathematics of Democratic Decision-Making.

Applied Calculus

GRADE(S): 11, 12
PREREQUISITE(S): Pre-Calculus
REQUIRED FOR GRADUATION: Elective
LENGTH: Full Year
OFFERED FOR 2024-2025: Yes

This course aims to solidify students' foundation in Algebra while introducing them to differentiation and integration, which are at the core of Calculus. This course differs from AP Calculus in that depth, rather than breadth, of topics is emphasized and includes hands-on projects and activities. Students apply Calculus to physics, economics, and data analysis. This course focuses on the application and utility of Calculus rather than the largely academic focus of the college board curriculum.

AP Calculus AB

GRADE(S): 11, 12
PREREQUISITE(S): Pre-Calculus and Department Chair approval
REQUIRED FOR GRADUATION: Elective
LENGTH: Full Year
OFFERED FOR 2024-2025: Yes

AP Calculus AB is roughly equivalent to a first-semester college-level calculus course devoted to topics in differential and integral calculus. The AB course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally and to make connections among these representations. Students learn to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP Calculus AB focuses on students' understanding of calculus concepts and provides experiences with methods and applications. Although computational competence is an important outcome, the main emphasis is on a multi-representational approach to calculus. Successful completion of this course prepares a student to take AP Calculus BC as their next course. Statistics would also be another option as a subsequent course.



MATHEMATICS COURSES (CONT.)

AP Calculus BC

GRADE(S): 12

PREREQUISITE(S): AP Calculus AB (score of 4 or 5 on AP Calc AB exam) and instructor recommendation

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Calculus BC is roughly equivalent to both first and second-semester college-level calculus courses and extends the content learned in AB to different types of equations while introducing the topic of sequences and series. Like the AB course, the BC course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally and to make connections among these representations. Students learn to use technology to help solve problems, experiment, interpret results, and support conclusions.

AP Statistics

GRADE(S): 11, 12

PREREQUISITE(S): Pre-Calculus or Transition to College Mathematics and Statistics, and Department Chair approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The AP Statistics course has four main topics: exploring data, planning a study, probability as it relates to the distribution of data, and inferential reasoning. Graphing calculators and computers are used to perform statistical computations. This course is the equivalent of a two-semester college course in descriptive and inferential statistics.

Multivariable Calculus & Differential Equations

GRADE(S): 12

PREREQUISITE(S): AP Calculus AB (score of 4 or 5 on AP Calc AB exam) and instructor recommendation

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This year-long course covers a typical college-level Calculus III curriculum, including vectors and vector-valued functions, curves and surfaces in space, partial derivatives and gradients, multiple integration, and line and surface integrals. In the course's final unit, students learn to identify and solve various kinds of differential equations, including exact first-order equations and second-order homogeneous and nonhomogeneous linear equations, and they practice using such equations to model systems from science and engineering. Built on a foundation of sophisticated problem solving, this course also features 3D visualization and model-building activities that help students develop their geometric intuitions about doing calculus in higher dimensions.



With small class sizes and teachers who are readily accessible, students benefit from a supportive and engaging learning environment. This setting fosters not only academic connections with peers but also meaningful interactions with the faculty.





SCIENCE

Citizens of our ever-changing world must understand scientific principles and clearly voice their support for sound policies and research essential for the success of future generations. Wakefield's immersive Science program focuses on building this critical foundation for understanding by bridging student curiosity with active discovery in a wide array of hands-on experiences while fostering the development of robust analytical skills and scientific literacy.

Our students' multi-disciplinary learning opportunities are structured to be developmentally appropriate, ranging from an introduction to scientific methodology and research skills to conducting first-hand independent research. Our program prepares students with the tools and knowledge to collaborate on senior capstone research projects fueled by their passions.

With emphasis on the importance of unifying language across divisions to enhance scientific literacy, both in written and verbal communication, students are encouraged to develop a keen awareness of current events in science within the broader context of history and global impacts, positioning them as clear voices for the future.

The Science Department is dedicated to providing a comprehensive and enriching educational experience. With a commitment to extend learning beyond the classroom, our students have the unique opportunity to engage with leading experts in the nation's capital region. Through collaborations with government agencies, non-profit organizations, and private enterprises, they witness the real-world applications of scientific and engineering principles on a global scale.

Beyond core coursework, our students actively participate in various local initiatives that define the Wakefield Science Department experience. Our rural hilltop campus in the Virginia Piedmont is an invaluable resource for scientific exploration, where students have opportunities to engage in gardening, cultivate the monarch waystation, and study biodiversity in our old-growth forest. Partnerships with organizations like Lockheed Martin, the Chesapeake Bay Foundation, and the Smithsonian offer hands-on experiences, ensuring our students emerge as well-rounded, curious, and scientifically literate individuals prepared for the challenges of the future.

SCIENCE COURSES

26

 General Biology

 General Chemistry

 Summer Chemistry Intensive

 General Physics

 Conservation Ecology

 Local Ecology

 Marine Science

 STEAM: Principles of Engineering,
Art, and Design

 DE Biology / NVCC BIO 101 & 102

 AP Chemistry

 AP Environmental Science

 AP Physics C: Mechanics

 AP Physics C: Electricity & Magnetism

All students are required to complete General Biology and General Chemistry to meet graduation requirements. However, four years of a science are strongly encouraged.

SCIENCE

SCIENCE COURSES

General Biology

GRADE(S): 9, 10

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Biology is the science of life and provides the foundation for understanding an array of modern topics. Climate change, biofuels, genetically modified organisms (GMOs), pandemics, biotechnology, conservation, and invasive species management are all matters that appear frequently in news sources. In addition, pharmacy advertisements, food packaging, and medical treatments are embedded with language and terms that require scientific literacy. Biology in this century is different from the subject of biology in Darwin's day, and today's students must apply their knowledge to an array of issues and assess correlation and impact globally.

In this course, students explore the fundamental principles of biology and apply them to global solutions. The progression begins with macromolecules and progresses through cell structure and function, cellular energetics, genetics, evolution, and ecosystems. Through lectures, discussions, laboratory experiments, research projects, and reflection, students develop their scientific savvy, expand their vocabularies, and derive a working body of biological knowledge to become influential citizen scientists and clear voices of the future.

General Chemistry

GRADE(S): 10, 11, 12

PREREQUISITE(S): Geometry

REQUIRED FOR GRADUATION: Yes (or Summer Chemistry Intensive)

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Chemistry is a rigorous traditional chemistry course in which the students learn how the nature of chemistry affects their everyday lives. The students explore their environment through the study of atomic structure and its effects on the reactivity of the periodic table elements and investigate the dynamic relationships of molecules. Topics are presented using a combination of lectures, group discussions, text readings, and published articles. Students explore chemical principles through laboratory experimentation and analysis. Topics emphasize connections and build skills using a thematic approach.

Summer Chemistry Intensive

GRADE(S): 10, 11, 12

PREREQUISITE(S): Biology, Geometry, and Department Chair approval

REQUIRED FOR GRADUATION: Yes (or General Chemistry)

LENGTH: Summer

OFFERED FOR 2024-2025: Yes

Note: Successful completion of this course fulfills the diploma requirement for one credit of Chemistry.

See "[Summer Courses](#)" section for information on registering for this summer course.

General Physics

GRADE(S): 10, 11, 12

PREREQUISITE(S): Algebra II or Algebra II / Trigonometry

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course is a general introduction to matter and energy and their interaction and comprises both traditional approaches to the study of physics: the conceptual and the mathematical. This course is appropriate for students with a strong interest in science, mathematics, or even the humanities. Topics span everything from classical Newtonian mechanics to more modern topics such as wave motion, electricity, and magnetism. The study of people, historical events, and the impact of scientific theories will provide context to the discoveries and how they impact the modern world.

Conservation Ecology

GRADE(S): 10, 11, 12

PREREQUISITE(S): Biology

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Conservation Ecology teaches students about our planet's broad, overarching ecological issues, including habitat destruction, pollution, invasive species, and pathogen transmission. Topics explored include new and emerging diseases, the effects of climate change, our diminishing honeybee population, and DNA-altering pesticides. This course includes indoor and outdoor labs, class dissections, field trips, and scientific studies. Students participate in ongoing campus projects such as maintaining Wakefield's Monarch Butterfly Waystation garden, growing vegetables and fruits in Wakefield's greenhouse and campus gardens, assessing and managing the health of the Wakefield retaining pond, promoting Wakefield's recycling and trash program, and working with school and student leadership groups to propose and pass new green, ecologically friendly alternatives on campus. **This course is taught in alternating years with Local Ecology.**

Local Ecology

GRADE(S): 10, 11, 12

PREREQUISITE(S): Biology

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course focuses on the environment and the study of how plants and animals interact with each other in their physical terrestrial or aquatic habitats. Topics will correlate with the changing environmental seasons on the Wakefield campus and show how they affect regional organisms' form and function. The course dives heavily into the processes of reproduction, metabolism and energy production, behaviorism, conservation of endangered species, ethical and sustainable land management (particularly focusing on urban sprawl and micro-cities, as well as farming and agricultural practices), and environmental science. The course teaches students about the relationship between their actions and the world around them, emphasizing local environmental problems and the interactions between native plants and animals. This course will rely heavily on data and organism collection from local field trips. Students taking this course should be prepared to travel outdoors to observe and collect specimens in various weather conditions and terrains. **This class is taught in alternating years with Conservation Ecology.**

SCIENCE COURSES (CONT.)

Marine Science

GRADE(S): 9 (10, 11 with Department Chair approval)

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course provides students with an opportunity to trace Wakefield's groundwater pathway from the Chesapeake Bay watershed to the Atlantic Ocean while fostering their curiosity about marine science and potential careers in the field. Through lectures, hands-on campus activities, laboratory sessions, and aquarium field trips, students learn the various stages of water movement — from its origins percolating in ground springs and precipitation to its course through tributaries, streams, rivers, and marshes that surge into the Chesapeake Bay. Students dive in to explore the fundamental scientific principles of ocean science and how marine organisms live and thrive on Earth. This experience provides students with a rich reservoir of marine science knowledge to draw upon during critical applied science opportunities in their required biology, chemistry, and physics coursework.

STEAM: Principles of Engineering, Art, and Design

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course is a formal STEAM course that engages students with short- and long-term projects. Each project embraces the design thinking process as students are guided through the iterative journey of addressing complex problems by identifying human needs, generating ideas, prototyping solutions, and testing them in real-world scenarios. Through collaborative group work, students develop technical skills and cultivate a deep understanding of the human-centered approach to innovation in order to create products, services, or systems that are not only functional but also user-centered and meaningful. Daily engagement with tools and materials facilitates a hands-on learning experience, integrating mathematics, art, and physics to meet challenges and bring ideas to life.

DE Biology / NVCC BIO 101 & 102

GRADE(S): 10, 11, 12

PREREQUISITE(S): Department Chair and Division Head approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

For this course, students are simultaneously enrolled at Wakefield School and Northern Virginia Community College. They receive a science credit for Wakefield as well as eight (8) college-level credits for completing NVCC courses General Biology 101 and General Biology 102 (BIO 101 & 102). The two-semester college-level biology course explores the concepts of biological processes with a chemical foundation; information flow, storage, and exchange; pathways and transformations in energy and matter; and systems biology. Topics include the biochemistry of macromolecules, cellular structure and function, metabolism and cellular energetics, cellular communication, heredity, gene expression and regulation, natural selection, ecology, and evolution. The in-depth study and investigative laboratory opportunities in this course foster a comprehensive understanding of biology and its relevance to society, fostering opportunities for students to address complex scientific issues with clarity and confidence. Students are expected to be active learners by participating in discussions, demonstrating their curiosity by asking questions, and, most importantly, seeking meaningful connections between concepts.

AP Chemistry

GRADE(S): 11, 12

PREREQUISITE(S): Completion of Biology and Chemistry with at least a B average in each class and Department Chair approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Chemistry is designed to be equivalent to a two-semester college-level general chemistry course and to prepare students for the AP Chemistry exam. Emphasis is placed on calculations and the mathematical formulation of principles to support topics such as atomic structure and properties, PEmolecular and ionic compound structure and properties, intermolecular forces, chemical reactions, kinetics, thermodynamics, equilibrium, acids and bases, and thermodynamics. The laboratory component consists of college-level labs, with the possibility of students receiving lab and advanced placement credits after the exam. Throughout the year, AP testing techniques and skills are discussed and practiced. Following the May exam, students continue to perform labs or projects, such as qualitative and quantitative analyses of unknown compounds and synthesis and analysis of simple organic compounds.



SCIENCE COURSES (CONT.)

AP Environmental Science

GRADE(S): 11, 12

PREREQUISITE(S): Completion of Biology and Chemistry with at least a B average in each class and Department Chair approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Environmental Science (APES) follows the course structure outlined by the College Board. Equivalent to a two-semester college-level environmental science course, APES is a comprehensive course that provides a college-level exploration of the scientific principles, concepts, and methodologies required to understand interrelationships in 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 alternatives for resolving and/or preventing them, including environmental policies and legislation. This course will consist of lectures, laboratories, field excursions, and strategy development for answering College Board APES questions centered on topics such as the living world, biodiversity, resource management, and atmospheric, aquatic, and terrestrial pollution. This approach will enable students to develop a deep understanding of the factors contributing to global change and become the clear voices of global policy and environmental advocacy the world needs.

AP Physics C: Mechanics

GRADE(S): 11, 12

PREREQUISITE(S): Completion of (or concurrent enrollment in) Calculus and Department Chair approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Physics C: Mechanics (C: Mech) follows the course structure outlined by the College Board. This course is the equivalent of a first-semester university-level physics course. C: Mech is a comprehensive course that provides a college-level exploration of the scientific principles, concepts, and methodologies required to understand how and why objects move and interact. This course consists of lectures, activities, laboratory experiences, and strategy development for answering College Board questions centered on topics such as Kinematics, Newton's Laws of Motion, Work, Energy, and Power, Systems of Particles and Linear Momentum, Rotation, Oscillation, and Gravitation.

Throughout the course, students develop an understanding of the mathematical models and how they are used to explain the movement and interaction between objects in the natural world.

AP Physics C: Electricity & Magnetism

GRADE(S): 11, 12

PREREQUISITE(S): Calculus, AP Physics C: Mechanics, and Department Chair approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Physics C: Electricity & Magnetism (C: E&M) follows the course structure outlined by the College Board. This course is the equivalent of a second-semester university-level physics course. C: E&M is a comprehensive course that provides a college-level exploration of the scientific principles, concepts, and methodologies required to understand the fundamentals of electricity and magnetism and how the two are connected. This course consists of lectures, activities, laboratory experiences, and strategy development for answering College Board questions that progress from Electrostatics into components and eventually circuits before switching to magnetism and then concluding the course with Electromagnetism.

Throughout the course, students develop an understanding of the mathematical models for both electricity and magnetism and how they are intertwined, be it creating electricity with magnetism or creating magnetism with electricity.





SOCIAL STUDIES



SOCIAL STUDIES

The Social Studies Department is committed to providing rich educational opportunities that center on a diverse array of coursework. With options in a variety of disciplines and opportunities to enroll in Advanced Placement and Dual Enrollment courses, our course offerings equip our students with a deep understanding of the world, both past and present.

Our academic studies foster a strong sense of civic engagement. Defined broadly, civic engagement is the development of knowledge, skills, and dispositions that promote service above self and deep appreciation for our history and democratic traditions. Our teachers develop comprehensive learning experiences that encompass a range of opportunities for growth, all of which foster within our students the ability and desire to serve as civic leaders now and in the future. One significant experience is the opportunity for students to engage with one another through debate and discussion. These whole-class and small-group experiences facilitate vital 21st-century skills in discourse, such as active listening and inquiry, while fostering a commitment that all voices are heard and all perspectives welcome.

Students also have opportunities to craft and follow their own personal learning journey through authentic assessments that reach beyond the classroom. These learning experiences promote confidence in young learners to develop clear voices. The Bill of Rights Institute's MyImpact Challenge in 12th grade provides the opportunity for students to research an area of need in their community and develop a solution to that need in the form of a civic action project.

These unique learning experiences, both inside and outside the classroom, encourage young learners to build strong character as positive citizens of their community while encouraging them to approach every learning opportunity with intellectual curiosity.



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SOCIAL STUDIES

SOCIAL STUDIES COURSES 36

- World Civilizations I
- World Civilizations II
- DE World Civilization / NVCC History 111 & 112
- United States History
- AP United States History
- U.S. Government
- Honors U.S. Government
- DE U.S. Government & Politics / NVCC PLS 135
- Art History
- AP Human Geography
- History of Rock 'n' Roll: Awop-bopalooop!

- Economics
- Introduction to Marketing
- Personal Finance
- Greek Mythology: Gods, Heroes, and Monsters
- Introduction to Philosophy: The Good Life
- Leadership Studies
- 20th Century Asia
- Post WWII World History
- DE International Relations / Comparative Politics, NVCC PLS 241 / PLS 140

All students are required to complete four (4) Upper School-level Social Studies credits for graduation. World Civilizations II, United States History (or AP U.S. History), and U.S. Government (or DE / AP U.S. Government) are required for all students. Starting with the class of 2026, World Civilizations I is required in addition to the courses listed above.

SOCIAL STUDIES COURSES

World Civilizations I

GRADE(S): 9

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

World Civilizations I is designed to expose students to the world's history from Prehistory to the time of the Middle Ages. Students are exposed to the continuum of civilizations and the diverse cultures that developed worldwide over time. To achieve these ends, students interpret and create maps, diagrams, and charts and analyze images of artifacts to better discern important ideas in the ancient world. Throughout the year, students are given a variety of ways to demonstrate their learning, such as through digital media projects, creative writing, historical essays, and primary source document analysis. In the process, students engage with authentic historical thinking skills such as comparison, causation, and historical contextualization.

World Civilizations II

GRADE(S): 10

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

World Civilizations II examines critical social, political, and economic developments of the modern world from the Renaissance to the present day. A central focus of the course is the development of key historical thinking skills that enable students to view history from varying perspectives. Through collaborative inquiry, students in this course hone and refine their analysis of primary and secondary source texts with an eye towards developing rich connections with the past. Assessments range from traditional paper and pencil tests to the creative arts, presentations, and digital projects demonstrating technological literacy skills.

DE World Civilization / NVCC History 111 & 112 (6 CR.)

GRADE(S): 10, 11, 12

PREREQUISITE(S): Minimum B average in previous History and English classes and Department Chair approval

REQUIRED FOR GRADUATION: Yes, in lieu of World Civilizations II

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

For this course, students are simultaneously enrolled at Wakefield School and Northern Virginia Community College. They receive an elective credit for Wakefield as well six (6) college-level credits for completing NVCC courses History 111 and History 112 (HIS 111 & 112). The course reviews the general history of the world from about 3000 BCE to the present and allows students to reach a basic understanding of the characteristic features of the world's historical development. The course also helps students to develop an understanding of the academic discipline of history and supports the general educational goals of historians and the college. Grading in the course is based on written assignments and on class work that demonstrates critical thinking.

United States History

GRADE(S): 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course surveys the history of the United States from its European roots to the modern day. Main historical themes, individuals, and events are studied and examined for their cause and effect on the flow of American history. Highlighted are events and ideas that have led to American political, social, economic, intellectual, or geographic changes. Through the detailed study of America's past, students understand the strengths and weaknesses of the American tradition in order to become more effective citizens.

AP United States History

GRADE(S): 11

PREREQUISITE(S): Minimum B average in previous History and English classes and Department Chair approval

REQUIRED FOR GRADUATION: Yes, in lieu of US History

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. (Taken from the College Board's AP US History site found [here](#).)

U.S. Government

GRADE(S): 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course covers the development of the American government, starting with its conception in the 1700s to the present day. The concentration of study is on the individual branches of government, followed by an overview of the political process. Students will leave the course with a solid comprehension of the structure of the American governmental system, the operation of the political process, and participation by the individual citizen, as well as an appreciation of our contemporary domestic issues and the nation's role in the modern world. Additionally, all students will complete a civic engagement project that asks them to identify and develop a solution for a problem affecting the local community.

SOCIAL STUDIES COURSES (CONT.)

Honors U.S. Government

GRADE(S): 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes, in lieu of U.S. Government

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course covers the development of the American government, starting with its conception in the 1700s to the present day. The concentration of study is on the individual branches of government, followed by an overview of the political process. Students will leave the course with a solid comprehension of the structure of the American governmental system, the operation of the political process, and participation by the individual citizen, as well as an appreciation of our contemporary domestic issues and the nation's role in the modern world. Additionally, all students will complete a civic engagement project that asks them to identify and develop a solution for a problem affecting the local community.

Honors students are expected to present their civic engagement projects to Upper School students and faculty and receive more rigorous and expansive course texts and assignments.

DE U.S. Government & Politics / NVCC PLS 135

GRADE(S): 11, 12

PREREQUISITE(S): Minimum B average in previous History and English classes and Department Chair approval

REQUIRED FOR GRADUATION: Yes, in lieu of US Government

LENGTH: Full Year

OFFERED FOR 2024-2025: No

For this Dual Enrollment course, students are simultaneously enrolled at Wakefield School and Northern Virginia Community College. They receive a Social Studies credit for Wakefield as well as three (3) college-level credits for completing this course. Quoting the NVCC website, this course “teaches the political structure, processes, institutions, and policymaking of the U.S. national government. (It) focuses on the three branches of government, their interrelationships, and how they shape policy. (It) addresses federalism, civil liberties, and civil rights, political socialization and participation, public opinion, the media, interest groups, political parties, elections, and policymaking. The assignments in the course require college-level reading fluency and coherent communication through written reports.”

Art History

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: No

*Note: Art History may fulfill ½ credit of **either** a Social Studies **or** a Visual & Performing Arts elective.*

Students in Art History analyze the development of styles and themes in different regions and cultures, focusing discussions on the best examples of sculpture, architecture, and painting with their respective social, political, philosophical, and religious contexts. The course is taught over two discrete semesters. Semester one covers art from prehistoric times up to the Renaissance. Semester two includes art from the Renaissance through the modern era, including contemporary art. **Students will be placed in either semester depending on their other course requests.**

As part of the coursework, students are required to visit an art museum on their own and several museums as a class. Additionally, students will be required to create and present artwork reflecting the current genre of study.

AP Human Geography

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Human Geography is an introductory college-level human geography course. This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. (Taken from the College Board's AP Human Geography site found [here](#).)

History of Rock 'n' Roll: Awopbopalooop!

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course takes students on a musical journey from Memphis to the Motor City, from London to Laurel Canyon, from Muscle Shoals to San Francisco, and from CBGB to Seattle. Along the way, students not only learn about the greatest rock 'n' roll artists of the past seventy-five years, but also the craft of music criticism through essays, album reviews, and presentations. The course guides students through the musical genres that defined this period (e.g., Motown, Heavy Metal, Prog Rock, Punk, Grunge, etc.) but permits ample opportunity for them to examine their own musical tastes. To quote the poet Robert Plant: “If you listen very hard, the tune will come to you at last.”

Economics

GRADE(S): 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: No

This Intro to Economics course exposes the student to four key areas: Foundations of Economics, Supply & Demand, Markets/Labor/Businesses, and Macroeconomics & Indicators. Through project-based activities, students deepen their understanding of the economic problems faced by the nation and the world. They use critical thinking skills while learning how to make reasoned economic decisions.

SOCIAL STUDIES COURSES (CONT.)

Introduction to Marketing

GRADE(S): 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: No

Introduction to Marketing is a project-based course that provides students with a broad knowledge of marketing concepts used in business, focusing on strategic planning, ethics/social responsibility, consumerism, product and digital marketing, and promotion. Through project-based activities, students are exposed to the 4 P's of Marketing — Product, Price, Place, and Promotion — and will address retail sales, business presentations, management, entrepreneurship, and career exploration.

Personal Finance

GRADE(S): 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: No

Personal Finance is designed to help students gain essential knowledge and skills to make informed decisions about real-world financial issues. Students learn how choices influence occupational options and future earning potential and how to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the student make wise spending, saving, and credit decisions and effectively use income to achieve personal financial success.

Greek Mythology: Gods, Heroes, and Monsters

GRADE(S): 10, 11, 12

PREREQUISITE(S): World Civilizations I or demonstrated equivalent

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Greek mythology is one of the most enduring and popular subjects of study from the ancient world. From Renaissance painting and modern opera to the plays of Derek Walcott and the novels of Rick Riordan, these stories have been analyzed, represented, interpreted, appropriated, adapted, and transformed by over two millennia's worth of commentators, thinkers, and artists. This course, using primary sources and a mostly project- and discussion-based methodology, introduces students to the key stories, places, people, animals, divine beings, and monsters of Greek mythology, as well as the reception of these ancient tales in modern contexts. It also introduces students to different methods of interpreting and understanding these stories.

Introduction to Philosophy: The Good Life

GRADE(S): 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

What does a good life look like? What does it feel like? What does it mean to live life well? What makes a life worth living? How do curiosity and character come together to help you build your personal agency? This course will provide an opportunity to explore these questions by examining several diverse traditions — of thought and philosophy — and their (or their founders') visions for a good life. Traditions we will encounter span the ancient to the modern, ranging widely from Epictetus (who?) to Nietzsche (Gesundheit!), as well as several world religions. The course will aim to include visits to and from individuals who understand their lives to be shaped by the traditions we are studying. No experience with philosophy is required, just a willingness to ask questions and to seek the challenge of thinking deeply.



SOCIAL STUDIES COURSES (CONT.)

Leadership Studies

GRADE(S): 11, 12
PREREQUISITE(S): None
REQUIRED FOR GRADUATION: Elective
LENGTH: Full Year
OFFERED FOR 2024-2025: Yes

This course introduces students to leadership theory with a focus on leadership traits, cross-cultural manifestations of leadership, and leadership as presented through sacred texts. This course has applied leadership, with an intensive service component that will count significantly towards the final grade. Topics include learning styles, understanding and valuing differences, the psychology of leadership, trait mapping, theories of classical and modern leadership, historical analysis of leadership failures, analysis of dictators, warlords, and tyrants, and understanding despair. **This class is taught in alternating years with Neuropsychology.**

20th Century Asia

GRADE(S): 11, 12
PREREQUISITE(S): None
REQUIRED FOR GRADUATION: Elective
LENGTH: Semester
OFFERED FOR 2024-2025: No

This course focuses on Asia's political, economic, social, and cultural development from the outbreak of 19th-century European imperialism through the early 21st Century. Students examine such problems as the effects of European imperialism, World War II, decolonization, the Cold War, national liberation wars and super-power rivalry, and the realignment of the post-Cold War world. Course studies will also attempt to assess the impact of these and other historical topics on today's world through an interdisciplinary study of Asian science, art, music, literature, and film. This one-semester course will focus on Japan, India, Pakistan, and China.

Post WWII World History

GRADE(S): 11, 12
PREREQUISITE(S): None
REQUIRED FOR GRADUATION: Elective
LENGTH: Semester
OFFERED FOR 2024-2025: No

After 1945, the world was far different than it had been during the 1930s, due mainly to the cataclysmic events of World War II and its monumental impact on the entire globe. This one-semester topical course examines through an interdisciplinary approach such topics as the Holocaust, the decision to use the atomic bomb on Japan, the Cold War, decolonization, war in Southeast Asia, and the struggle for civil rights in the United States. These and other events are examined through the lens of World War II and its legacy. Primary sources, film, art, political philosophy, and literature are utilized throughout the semester in order to facilitate this study.

DE International Relations / Comparative Politics, NVCC PLS 241 / PLS 140

GRADE(S): 11, 12
PREREQUISITE(S): Minimum B average in previous History and English classes and Department Chair approval
REQUIRED FOR GRADUATION: Elective
LENGTH: Full Year
OFFERED FOR 2024-2025: Yes

For this Dual Enrollment course, students are simultaneously enrolled at Wakefield School and Northern Virginia Community College. They receive a Social Studies elective credit for Wakefield as well six (6) college-level credits for completing two separate NVCC courses: International Relations PLS 241 & Comparative Politics PLS 140.

Semester 1 — International Relations: This course teaches the geographic, demographic, economic, ideological, and other factors conditioning the policies of countries and discusses conflicts and their adjustment as well as foreign policies of the major powers in the world community, with emphasis on the United States' role in contemporary world affairs.

Semester 2 — Comparative Politics: This course teaches basic concepts and methods of comparative politics, introducing students to the world's wide array of governmental systems through analyses of government and politics in various nations. Through an improved understanding of the diversity among governmental systems, students will better appreciate how different governments were formed or are changed, as well as the forces that have an impact on governments, such as public opinion, media, political parties, interest groups, protest movements, economics, and international relations. Because the world is always changing, the topics and countries receiving focus may vary from year to year to take advantage of timely issues in the discipline.





VISUAL & PERFORMING ARTS

Wakefield’s Visual & Performing Arts Department thrives on cultivating a culture of exploration, urging students to explore all facets of the arts, even those they may not have initially imagined. Students journey into artistic discovery, experimenting with various techniques, mediums, and avenues of expression.

The department offers unique opportunities for our students to discover and articulate their voices through the expressive tapestry of storytelling across myriad artistic mediums, cultivating individual expression within our school’s creative community. The stage becomes a canvas for showcasing not only theatrical and musical talents but also collaborative spirit, reinforcing the idea that a clear voice can emerge individually and through shared creative endeavors.

By championing the telling of often unheard stories and daring to give them a voice, our students benefit from their own character growth. Photography students discover the intricacies of moments captured through film, gaining a deeper understanding of the transformative power of visual storytelling.

Digital Arts courses seamlessly fuse technology with creative vision and exploration of the cinematic arts. With courses like Technical Theater and Fundamentals of Drafting encouraging students to delve into unexpected realms, they explore varied aspects of the Performing Arts through CAD programming, woodworking, and stage lighting to develop and complement intricate set designs.

At the department’s core lies the recognition of art as the confluence of theory, practice, and creativity. With a commitment to respecting individual voices and fostering curiosity, the Visual & Performing Arts Department engages the community in open-minded exchange and is instrumental in shaping students into well-rounded individuals with a profound appreciation for the arts and the confidence to explore the unexpected in their creative journeys.

All students are required to complete two (2) elective credits from the visual and performing arts to fulfill graduation requirements. A credit is earned by successfully completing one year-long course or two (2) semester-long courses. In lieu of one (1) of these credits, students may instead participate in three (3) semesters of Performing Arts productions during their Upper School tenure. **In addition, while there are prerequisites for many of the arts courses, students are encouraged to consult with the chair of the department to apply for exemption of prerequisite where warranted, as exceptions may be made to meet student experience levels and interests.**

VISUAL ARTS COURSES 46

| |
|--------------------------------|
| Art History |
| Introduction to Studio Art |
| Studio Art I |
| Introduction to Digital Art |
| Fundamentals of Drafting |
| Printmaking and Clay |
| Black and White Photography |
| Digital Video Production |
| Yearbook I |
| Advanced Topics in Studio Art |
| Advanced Topics in Digital Art |
| Advanced Photography |
| Yearbook II |

PERFORMING ARTS COURSES 52

| |
|---|
| Drama: Exploration of the Performing Arts |
| Music Theory I |
| Technical Theater |
| Vocal Ensemble I |
| Vocal Ensemble II |
| Advanced Vocal Ensemble |
| AP Music Theory |

VISUAL ARTS COURSES

Art History

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: No

Note: Art History may fulfill ½ credit of either a Social Studies or a Visual & Performing Arts elective.

Students in Art History analyze the development of styles and themes in different regions and cultures, focusing discussions on the best examples of sculpture, architecture, and painting with their respective social, political, philosophical, and religious contexts. The course is taught over two discrete semesters. Semester one covers art from prehistoric times up to the Renaissance. Semester two includes art from the Renaissance through the modern era, including contemporary art. **Students will be placed in either semester depending on their other course requests.**

As part of the coursework, students are required to visit an art museum on their own and several museums as a class. Additionally, students will be required to create and present artwork reflecting the current genre of study.

Introduction to Studio Art

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Introduction to Studio Art presents opportunities for students to work with a wide variety of materials. The course structure focuses on the five primary studio art disciplines (Drawing, Painting, Printmaking, Ceramics, and Sculpture/3D Design). Students continue to use the elements and principles of design while incorporating personal expression into their work. Students use varied materials as they solve problems creatively.

Studio Art I

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Intro to Studio Art or Intro to Visual Arts

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course is for students who wish to continue to develop their artistic abilities. Studio Art I is a comprehensive art course that is predominantly production-oriented. It integrates aesthetics, art criticism, and art history as they relate to the various advanced studio projects. Studio Art allows students to grow and learn in a skilled studio environment surrounded by peers committed to developing themselves as young artists and designers. Students learn to think and express themselves critically, strategize creative solutions to problems, and understand that a given objective can have more than one solution. Quality over quantity is encouraged.

Introduction to Digital Art

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Introduction to Digital Art provides students with the tools and knowledge to create digital art and content using the programs that make up the Adobe Creative Suite. Students learn how to create and manipulate images while enhancing the use of basic and midrange tools that are available in Illustrator, Photoshop, and InDesign. Foundational artistic concepts are addressed through project-based coursework. Students learn the specific needs of real-world applications of these programs, creating professional content and compelling digital art.



VISUAL ARTS COURSES (CONT.)

Fundamentals of Drafting

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Intro to Digital Art or Intro to Visual Arts

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Fundamentals of Drafting course introduces students to Computer Aided Drafting (CAD) and covers the basic concepts and techniques that can be directly applied to general and advanced-level drafting. This course will primarily use Vectorworks software, but references to other software packages may be included to familiarize the student with commonalities between CAD systems. Students will become familiar with the elements of drafting, including types of drawing, drawing techniques, and the conventional wisdom used during the production of orthographic, architectural, and drafting for engineering purposes. Students will achieve a moderate level of mastery in the use of drafting tools, graphics, lettering, line weights, sheet layout, dimensioning, and conveying information.

Printmaking and Clay

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Introduction to Studio Art

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

In the first semester, students delve into the world of printmaking; through design, drawing, and painting exercises, students gain hands-on experience in various printmaking methods. In the second semester, students integrate their printmaking expertise into the realm of ceramics. Building upon the foundational principles of clay craftsmanship, students incorporate printmaking techniques to add vibrant colors and designs to their ceramic pieces. By marrying the tactile nature of clay with the versatility of printmaking, students push the boundaries of traditional ceramic artistry.

Black and White Photography

GRADE(S): 10, 11, 12

PREREQUISITE(S): Intro to Studio Art or Intro to Digital Art or Intro to Visual Arts

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The fundamental goals of Black and White Photography include an introduction to the principles and techniques of the black-and-white process and the effective manipulation of all the equipment and materials. The development of camera skills and techniques is emphasized through the various projects assigned. The knowledge of darkroom techniques, skills, and safety practices is emphasized and monitored. Within each of the projects, students are given a great deal of latitude to encourage individualism in interpreting and solving the assigned problem. Skills developed in creativity, technique, and composition are directly related to the quality of the student's photographs, and the pursuit of personal artistic style is stressed to help the students develop a sense of pride in their creations. Students explore black-and-white photography from the artistic viewpoint and the social, historical, communicative, and advertising aspects.

Digital Video Production

GRADE(S): 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Lights! Camera! Action! The Digital Video Production course provides students with the opportunity to explore all aspects of digital video production. For the pre-production stage, students learn the basic principles of story development, storyboarding, and writing for the screen. Instruction on the production stage covers basic visual composition and setup along with the operation of camera, sound, and lighting equipment. For post-production, students learn to use current software applications for video and audio editing and enhancement. This course is project-based, with emphasis on the use of knowledge and skills addressed to enhance experiences in Wakefield's GLO Theater & Auditorium.

Yearbook I

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course has one sole purpose: to produce the school's yearbook, *Virtus et Sapientia*. Students learn the fundamental skills of journalism, photojournalism, and desktop publishing with regard to concept and theme, content, layout, and design. They learn business management skills for promotion and management of ad sales. Strong writing skills are encouraged.

Advanced Topics in Studio Art

GRADE(S): 10, 11, 12

PREREQUISITE(S): Studio Art I

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

In this course, motivated, independent students will have the opportunity to develop their own projects with the guidance and expertise of the faculty member. Students may experiment with various materials or choose to focus on creating work centered around a specific topic or theme. Students have the freedom to experiment by blending different media types or concentrating on refining a single process to push the boundaries of their chosen medium. Frequent critiques in the studio will take place to help students advance and improve, as well as meet deadlines mimicking the professional art world.

VISUAL ARTS COURSES (CONT.)

Advanced Topics in Digital Art

GRADE(S): 10, 11, 12

PREREQUISITE(S): Digital Art I or Fundamentals of Drafting

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

In this course, motivated, independent students have the opportunity to develop their own digital projects that may include creating a branded company with logo development, collateral, and a website. Students may experiment with programs in the Adobe Creative Suite or choose to focus on creating work centered around a specific topic or theme. Students have the freedom to experiment by blending different media types or concentrating on refining a single process to push the boundaries of their chosen medium. Throughout the course, students receive direct personal supervision in the studio to help advance and improve their skills and learn the importance of meeting deadlines.

Advanced Photography

GRADE(S): 11, 12

PREREQUISITE(S): Black and White Photography

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Advanced Photography builds on the skills, process, and philosophies developed in Black and White Photography. Students continue to refine their application and use of Analog 35 mm film. Introduction and exploration of color imaging, digital black and white photography, medium format (120 & 240mm film) and large format (4X5) photography are essential aspects of the course. Students explore the use of interior studio lighting, including umbrellas, lighting, and flashes. Methods such as Stop Motion Animation and others may be used to extend student experiences further.

Yearbook II

GRADE(S): 11, 12

PREREQUISITE(S): Yearbook I

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Students in Yearbook II continue to practice and refine their writing, photography, and design skills by contributing articles, photos, layouts, design, and technical expertise for the school yearbook, *Virtus et Sapientia*. In addition, students are expected to take on a position of leadership, such as editor or assistant editor, business manager, art, or technical support. Through these leadership positions, students learn to manage staffers, manage and meet deadlines, and make responsible and ethical editorial decisions.



PERFORMING ARTS COURSES

Drama: Exploration of the Performing Arts

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Exploration of the Performing Arts course incorporates the study of dance, music, theater, and technical and visual arts to offer unique experiences and empower students to explore realities, relationships, and ideas. The disciplines of drama, whether performing on stage, studying classical work, or enjoying a live performance, help engage and motivate students through active learning, critical thinking, and innovative problem-solving.

The class is structured to familiarize students with the elements of plays, acting, dialects, productions, and planning to help students develop the analytical skills to think, communicate, and write critically about theater. Students will look at classical and modern plays while learning and gaining the skills and confidence to produce a full production.

Music Theory I

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

For novice music students and those unfamiliar with the study of music, Music Theory I provides a solid foundation for understanding the language of music. Students acquire the essential skills to decipher musical notation and cultivate the analytical abilities necessary for honing their craft in musicianship as composers, performers, and appreciative listeners. Students who successfully complete this course will have attained fluency in reading, writing, and analyzing musical compositions.

Technical Theater

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: Yes

Technical Theater examines all of the technical aspects that make theater possible and, for those who consider themselves actors, shows them just what it is that helps them pursue greatness on the stage. The course explores lighting, sound, set design, costumes, and makeup and strives to show students how these elements work together to make any theatrical endeavor a reality. Students will work with and may even be a part of the technical crews for Wakefield's theatrical productions. Content is broken up into two distinct semesters. **Students will be placed in either semester depending on their other course requests.**



At the department's core lies the recognition of art as the confluence of theory, practice, and creativity. With a commitment to respecting individual voices and fostering curiosity, the Visual & Performing Arts Department engages the community in open-minded exchange and is instrumental in shaping students into well-rounded individuals with a profound appreciation for the arts and the confidence to explore the unexpected in their creative journeys.



PERFORMING ARTS COURSES (CONT.)

Vocal Ensemble I

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Vocal Ensemble I is a year-long course and serves as the premier vocal group, Nova Você, representing Wakefield School in various concert engagements throughout the year. The ensemble specializes in a diverse repertoire ranging from Rock to Baroque, presenting both accompanied and acapella performances. While many concerts will be held on campus, members of the ensemble will also have the opportunity to showcase their talents and proudly represent Wakefield in select community events, extending their reach to a broader audience.

Vocal Ensemble II

GRADE(S): 10, 11, 12

PREREQUISITE(S): Vocal Ensemble I

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Vocal Ensemble II is a continuation of the introductory course, Vocal Ensemble I. In addition to building upon the foundational skills established in Vocal Ensemble I, students enrolled in Vocal Ensemble II are expected to assume leadership roles within the ensemble group.

Advanced Vocal Ensemble

GRADE(S): 10, 11, 12

PREREQUISITE(S): Vocal Ensemble II

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Advanced Vocal Ensemble represents the pinnacle of leadership within the Vocal Ensemble, Nova Você. This advanced level not only continues to refine skills introduced in Ensembles I & II but also requires students to take on significant leadership roles within the group. Members are expected to lead sections of rehearsals confidently, including teaching and conducting segments of the chosen repertoire. Additionally, students actively participate in selecting music and themes, gaining valuable insights into ensemble direction, management, and performance considerations.

AP Music Theory

GRADE(S): 10, 11, 12

PREREQUISITE(S): Music Theory I and Director of Arts approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

AP Music Theory is an introductory college-level course in music theory. Throughout the course, students deepen their comprehension of musical concepts such as pitch, rhythm, form, and musical structure through analysis of both performed and notated pieces.





WORLD LANGUAGES



WORLD LANGUAGES

The World Languages Department instills courage and competence in every Wakefield student so that they may appreciate the inextricable relationship between human languages and cultural experiences with open hearts and open minds throughout their lives. We aim to cultivate respect, empathy, and integrity through intentional instruction on linguistic diversity, cultural practices, and historical perspectives. We create opportunities for students to explore new experiences and broaden their comfort zones with developmentally appropriate challenges.

With the belief that a clear voice should be their own, students develop skills and awareness in technology, including artificial intelligence, understanding its impact on their learning experiences, and academic integrity. We nurture initiative, creativity, and exploration by providing various opportunities for student agency within classrooms and assignments. Holiday celebrations, seasonal activities, music, food, and cultural traditions are seamlessly incorporated into the curriculum, exposing students to the richness of life experiences relevant to the language.

Competency in language skills empowers students to feel confident to grow and experience deeper learning, fostering a solid motivator for lifelong learning. To further the natural curiosity of a World Language student, our department will often connect interested students with meaningful travel and immersion experiences abroad.

Confident self-expression in our students is fostered by developing cultural sensitivity and practical communication skills. This practice involves teaching effective listening skills and cultural awareness to help students interpret language and respond to others effectively. Students are presented with opportunities to choose topics of personal interest, empowering them in their learning experiences. The department places a significant emphasis on providing diverse opportunities for students to showcase their speaking and writing skills, including presentations, conversations, and small groups.

All students must complete two (2) years of a single world language to meet graduation requirements. Students are strongly encouraged to take three (3) courses in one world language prior to graduation.

SPANISH COURSES 58

- Spanish I

- Spanish II

- Spanish III

- Spanish IV

- AP Spanish

FRENCH COURSES 60

- French I

- French II

- French III

- French IV

- AP French

LATIN COURSES 62

- Latin I

- Latin II

- Latin III

- Latin IV

- DE Latin / NVCC LAT 201 & 202

OTHER COURSES 63

- American Sign Language I

SPANISH COURSES

Spanish I

GRADE(S): 8, 9, 10, 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Spanish I introduces students to the language and culture of the Hispanic-speaking countries. Students develop listening, speaking, reading, and writing language skills while being exposed to interpretive, interpersonal, and presentational communication through podcasts and videos, interacting with native and non-native speakers, reading a variety of narratives, and writing sentences for short essays. Pronunciation, grammatical structures, and language functions are practiced to develop the oral and written aspects of the Spanish language. The vocabulary focus is on day-to-day student life and needs. These topics will also help to establish similarities and differences between the American and Hispanic cultures.

Spanish II

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Spanish I

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Spanish II students build on the foundation of Spanish I, expanding their vocabulary and constructing coherent sentences by applying proper syntax. They further advance their proficiency in basic communication modes in Spanish, including interpretive, interpersonal, and presentational communication. Through Spanish readings, videos, websites, and songs, students explore the language and culture. Additionally, they learn to compose letters and informative reports, expanding their linguistic skills while increasing their awareness of the diversity among Hispanic cultures.

Spanish III

GRADE(S): 10, 11, 12

PREREQUISITE(S): Spanish II

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

In Spanish III, students are expected to have already mastered all tenses and achieved proficiency in sentence structure and general grammar. At this level, they focus on further refining their communication skills through diverse media. Utilizing resources crafted by native Spanish speakers, students deepen their cultural understanding while honing interpretive, interpersonal, and presentational communication abilities. Students employ advanced vocabulary and engage in more frequent speaking, writing, reading, and listening comprehension exercises to enhance their language proficiency.

Spanish IV

GRADE(S): 11, 12

PREREQUISITE(S): Spanish III

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Spanish IV is considered the culmination of the students' language studies. The primary focus is to enhance Spanish language proficiency, especially in oral communication and reading. Positioned as a preparatory course for AP Spanish, it provides ample opportunities for students to engage with literary works, including poetry, and deepen their cultural understanding. Cultural enrichment includes history, geography, and current events. Students study grammar, verb usage, and new vocabulary throughout the year, with a significant emphasis on mastering the subjunctive mood.

AP Spanish

GRADE(S): 11, 12

PREREQUISITE(S): Spanish IV and teacher recommendation

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

As AP Spanish is conducted entirely in Spanish, students are expected to be proficient in the Spanish language. The course is designed to prepare students for the AP Spanish exam. Coursework covers mastery of all verb forms and continues to work on building vocabulary. Students engage with contemporary subjects spanning science, technology, modern life, the environment, beauty and aesthetics, self-image, personal beliefs, identity, and family and community. Students learn to understand, interpret, and synthesize various forms of communication, including written, spoken, and audio-visual mediums.

FRENCH COURSES

French I

GRADE(S): 8, 9, 10, 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

French I introduces students to the language and culture of French-speaking countries. The course aims to spark interest in the French language and culture and promote understanding of other cultures through basic concepts in history, philosophy, art, theater, sciences, food, fashion, and cinema. Students learn pronunciation, spelling, sentence structure, and conjugation of regular and irregular verbs, primarily in the present tense, agreement of adjectives, and the formation of negative and interrogative sentences. Through interpretive, interpersonal, and presentational communication, using various resources like videos, audio texts, interactions with native and non-native speakers, reading texts, and writing short dialogues and letters, students develop listening, speaking, reading, and writing skills. Vocabulary is centered around daily student life. The goal of this level is to provide students with a solid foundation for future French language learning.

French II

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): French I

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course aims to spark a strong interest and enthusiasm for the French language and culture, while also highlighting the significance of understanding other cultures through the exploration of history, philosophy, art, theater, sciences, and even food, fashion, and cinema. The focus at this level is on expanding vocabulary and mastering regular and irregular verb conjugations in present, future, conditional, imperative, and past tenses. Students also learn basic sentence structure, prepositions, common expressions, pronouns, agreement of past participles with subjects and direct objects, and other grammar concepts.

Additionally, pronunciation rules are reviewed to enhance oral communication skills. The goal is to immerse students in the language as much as possible and encourage their spoken and written communication skills. Through readings and video presentations, students learn about France and Francophone countries.

French III

GRADE(S): 10, 11, 12

PREREQUISITE(S): French II

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

In French III, students master sentence structure, using a variety of tenses and refining both their written and oral communication skills. The primary objective of this course is to spark a strong interest and enthusiasm for the French language and culture while also deepening understanding of various concepts at an advanced level through the exploration of history, philosophy, art, theater, sciences, and even food, fashion, and cinema.

This level emphasizes comprehension of materials presented in their original language, whether written or oral. New vocabulary is introduced through textbook units and teacher-provided lists to enhance students' fluency, with a continual emphasis on reviewing and expanding knowledge of irregular verbs. Literary works and traditional stories are presented as reading materials, providing insight into French culture while improving language proficiency.

French IV

GRADE(S): 11, 12

PREREQUISITE(S): French III

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Students entering this level have achieved a high level of comprehension and ability to communicate in French. In this course, students develop a profound interest and passion for the French language and culture through the exploration of various subjects, including history, philosophy, art, theater, science, and even food, fashion, and cinema. Students also focus on analyzing literary texts and refining their written and oral communication skills. The introduction of advanced grammar concepts is always accompanied by a review of the essential principles of correct syntax and verb usage. Students are expected to deliver an oral presentation and analysis of a writer's work or compose a written essay on the subject. This approach ensures a comprehensive understanding and application of linguistic and literary elements.

AP French

GRADE(S): 11, 12

PREREQUISITE(S): French IV and teacher approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

As AP French is conducted entirely in French, students are expected to be proficient in the French language. This course is designed to prepare students for the AP French exam. Students continue to review grammar with attention to nuance and irregular forms and to build vocabulary. A student entering the AP program is assumed to have learned all the conjugations, be able to write a thoughtful page-long composition, and carry on a spoken conversation about daily life or school events. Students read, comment on, and analyze short stories and news articles. The oral component of the AP Exam includes 5-minute spoken narratives for listening comprehension and a speaking test that requires the student to speak without preparation on any number of daily-life topics.

LATIN COURSES

Latin I

GRADE(S): 8, 9, 10, 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Latin I introduces students to the fundamentals of Latin forms, grammar, and reading to provide a sound basis for further study in the language. Over the course of the year, class discussions encompass various facets of Roman history, Latin literature, and the impact of the Latin language and ancient Roman culture. The overarching objective of the Latin curriculum at Wakefield is to equip students with the ability to read and appreciate Latin literature in its original form, thereby placing a significant emphasis on reading proficiency in Latin.

Latin II

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Latin I

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The goal of Latin II is to continue to instruct students in the rudiments of Latin forms, grammar, and reading to provide a sound basis for further study in the language. The overarching objective of the Latin curriculum at Wakefield is to equip students with the ability to read and appreciate Latin literature in its original form. All the while, students are taught about Roman history and culture to lay a firm base for understanding the Latin language in its historical and cultural contexts. Students also develop analytical skills while working in a highly inflected language.

Latin III

GRADE(S): 10, 11, 12

PREREQUISITE(S): Latin II

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Latin III provides students with essential advanced Latin grammar that moves them beyond the basic level, including passive systems of verbs, the use of participles, and the subjunctive mood. The course places a strong emphasis on developing reading skills to provide a sound basis for further study of the language. Students are introduced to adapted portions of speeches by the famous orator Cicero and get an introduction to prose structure through continuous passages from his "Against Verres." Students learn about the system of Roman offices and government and the crisis of the Late Republic that would lead to the establishment of hereditary imperial power.

Latin IV

GRADE(S): 11, 12

PREREQUISITE(S): Latin III

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Latin IV engages students in a complete Latin grammar review and develops advanced reading skills through reading and analysis of both Latin prose and poetry. Furthermore, there is a strong emphasis on Latin composition as a means to solidify all that students have learned. Rhetoric and prose structure play a vital role in what students study. Students are taught about Roman history and culture to lay a firm base for understanding the Latin language in its historical and cultural contexts. Students continue to hone their analytical skills while working in a highly inflected language.

DE Latin / NVCC LAT 201 & 202

GRADE(S): 11, 12

PREREQUISITE(S): Latin IV and teacher recommendation

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

For this Dual Enrollment course, students are simultaneously enrolled at Wakefield School and Northern Virginia Community College. They receive a year of World Language credit for Wakefield and six (6) college-level credits from NVCC for completing this course. DE Latin is an intermediate, college-level Latin reading course. The works and authors taught in the course vary from year to year but include mainstays of Latin literature, such as Vergil's Aeneid, the speeches of Cicero, the poetry of Ovid, and historical writers like Livy and Suetonius. The course emphasizes comprehension, literal translation, literary interpretation, stylistic analysis, and criticism of the prescribed texts. Considerable attention is devoted to the authors' historical, literary, and intellectual backgrounds as they relate to the works being studied.

OTHER COURSES

American Sign Language I

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Department Head and Learning Support Specialist approval

REQUIRED FOR GRADUATION: Yes, as one of the two required World Language courses

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

When you start any new language, you want to converse right away! Unlike other languages, when English-speaking students start learning American Sign Language, they fingerspell within the first few weeks, so there's no delay in communicating in the new target language. Once students master the basics of letters and numbers, they move on to the five sign parameters: handshape, palm orientation, location, movement, and facial expressions. As with all languages, students also learn parts of speech and sentence word order and types. Learning happens in a cultural context as students explore the history and physiology of deafness and deaf culture, including discrimination experienced by people who are hard of hearing. Wakefield offers this course through its partnership with the One Schoolhouse Consortium, and an additional charge is required. Additional courses are available with successful completion and approval.



HEALTH SCIENCES



HEALTH SCIENCES

The Department of Health Sciences mirrors college and university offerings in the fields of medicine, sports medicine, physical education, nutrition, health, and wellness. These academic offerings deepen a student’s coursework in areas of interest and passion, including medicine, physical therapy, kinesiology, sports medicine, psychology, fitness, and mental health. Shadow opportunities, internships, and applied learning are also key components of these studies.

Health Sciences is dedicated to a holistic approach to the preservation and study of a healthy and balanced lifestyle. Coursework includes real-world applications and opportunities for certification in CPR, first aid, and mental health training, among others. Discussions on current health issues instill an awareness of good personal habits, actions, and the importance of a healthful lifestyle, ensuring a well-rounded and character-rich educational experience.

For students interested in pursuing sports management, innovative programs like the Sports Medicine course and the Athletic Department Internship offer students an operational view of Wakefield’s Athletics program. Through the study of athletic training, injury prevention, rehabilitation, game day preparation, and inventory practices, these elective opportunities open doors for students.

Health Sciences, in collaboration with Wakefield Athletics, plays a pivotal role in broadening the academic experience and fostering community engagement. These programs provide students and athletes with diverse opportunities that bolster teamwork, interpersonal skills, and educational experiences through the challenges inherent in sports competitions.

In essence, Health Sciences and the Wakefield Athletics program synergize to create an environment where students excel not only in physical pursuits but also embody well-rounded character, maintain a profound curiosity about health and fitness, and possess the ability to advocate for their well-being, essential for leading a fulfilling and balanced life.

HEALTH SCIENCES COURSES

66

- Introduction to Health Science

- Nutrition and Wellness

- Fitness for Life

- Human Anatomy & Physiology

- Psychology

- Neuropsychology

- Sports Medicine

- Athletic Department Internship

Courses in Health Sciences can fulfill one (1) of the additional Science credits or any of the three (3) elective credits required for graduation.

HEALTH SCIENCES COURSES

Introduction to Health Science

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: Yes

This is an introductory course exposing students to the skills required to find success in the Healthcare field. It provides students with a vision of what careers Health Science will entail, including academics, professional standards, and soft skills. In addition, this course requires every student to be CPR/First Aid certified by the end of the semester. (This may require time outside of class.) This course is for students interested in learning more about the healthcare industry and the demands required to find success with careers in this realm.

Nutrition and Wellness

GRADE(S): 9, 10, 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Semester

OFFERED FOR 2024-2025: Yes

This course covers all aspects of nutrition and physical wellness that students may get in a traditional health course. The main goal is to instruct students on good food choices, how food affects the body, the importance of pairing physical wellness with a good diet, nutrients, and nutritional guidelines, and preparing safe and nutritious food. Students study the science behind the nutritional components of food and their impact on the body. Students have lab opportunities to design healthy, nutritional meals that can be prepared in a classroom space with a simple combo air fryer/oven, hot plate, and/or microwave.

Fitness for Life

GRADE(S): 10, 11, 12

PREREQUISITE(S): Completed Sports/PE Physical

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Fitness for Life is designed to encourage personal fitness as a way of life. Lifetime sport activities are emphasized with team sports included. Cardiovascular fitness, muscle strength, endurance, flexibility, and positive mental health are targeted during each class. Current health issues are discussed and projects assigned.

Human Anatomy & Physiology

GRADE(S): 10, 11, 12

PREREQUISITE(S): Biology (Chemistry recommended)

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Human Anatomy and Physiology is an in-depth course that delves into life systems and processes of the human body. The course covers the systems of the body and puts them in the context of how they collectively work to maintain homeostasis. Topics such as medical terminology, cell and tissue structure, and diseases and disorders of each system are also covered in the course.



Health Sciences and the Wakefield Athletics program synergize to create an environment where students excel not only in physical pursuits but also embody well-rounded character, maintain a profound curiosity about health and fitness, and possess the ability to advocate for their well-being, essential for leading a fulfilling and balanced life.



HEALTH SCIENCES COURSES (CONT.)

Psychology

GRADE(S): 10, 11, 12

PREREQUISITE(S): Biology

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course is designed to give students an introduction to the science of Psychology. Students explore up-to-date psychological concepts on brain function, individual human behaviors and mental processes. Students cover basic foundations and principles of Psychology including discussions regarding career paths that require a psychology background.

Neuropsychology

GRADE(S): 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

This course provides students with a broad introduction to the field of neuropsychology, with an emphasis on the fundamentals of neural communication and neural organization, neuroplasticity, and the new technologies and therapies that have been developed to support this potential. Beginning with a historical overview of the field, from the tragic days of insulin shock therapy and lobotomies to the wonders of bioengineering and neuroplasticity, this course demonstrates that the field must stay grounded within a lived experience of ethical behavior and commitment to humanity. This class is heavily oriented towards writing and critical thinking, so students who struggle with these skills may need to spend extra time crafting their work. **This class is taught in alternating years with Leadership Studies.**

Sports Medicine

GRADE(S): 11, 12

PREREQUISITE(S): Biology, Chemistry

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Sports Medicine provides students with a general overview of athletic training, sports medicine, and its history. It includes introductory information about athletic training's scope of practice: injury prevention, treatment, rehabilitation, emergency injury management, and administrative functions. This course is intended to help students gain an understanding of sports medicine and its associated disciplines as well as the role they play in the physically active community. *(Taken from the National Athletic Trainers Association site found [here.](#))*

Athletic Department Internship

GRADE(S): 10, 11, 12

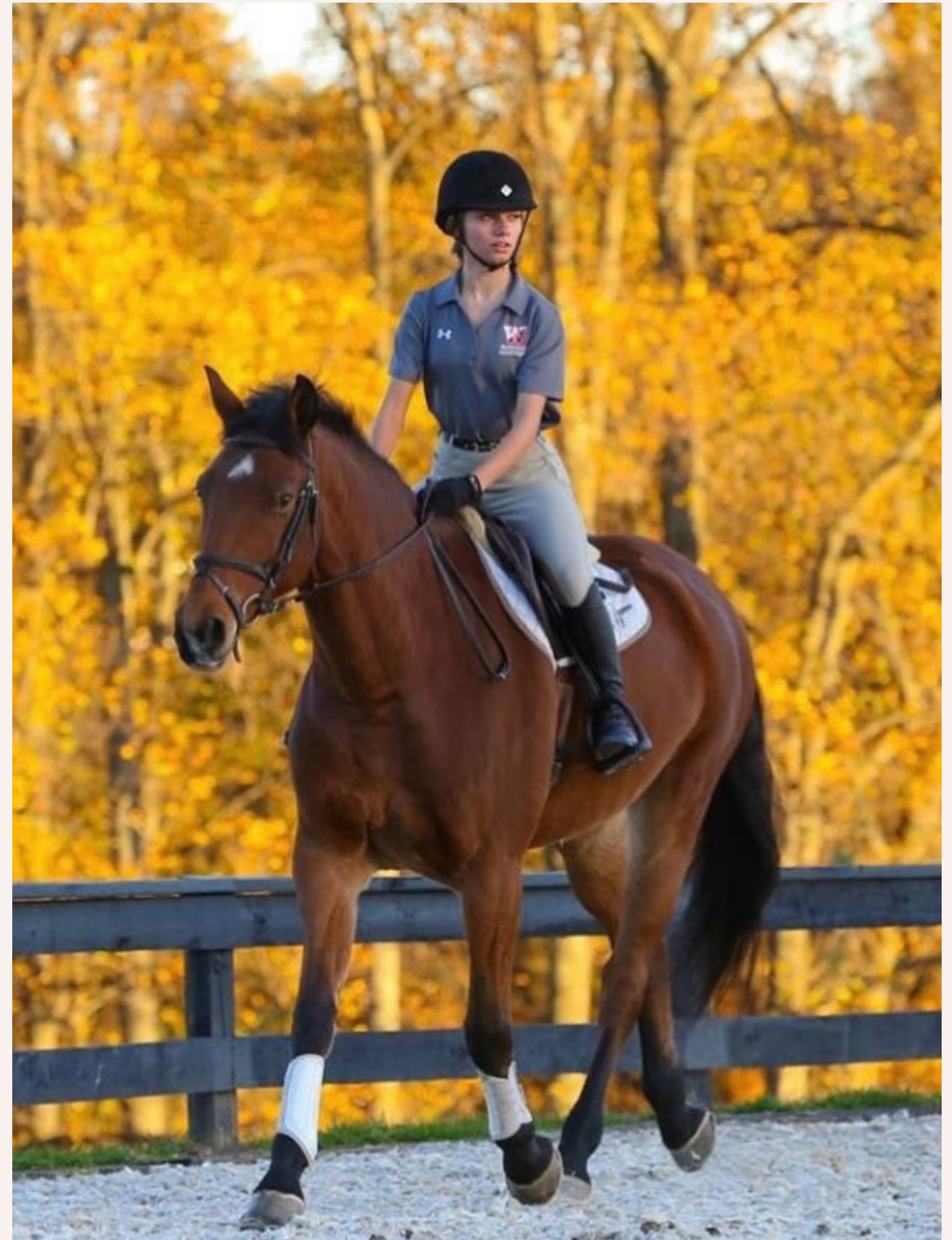
PREREQUISITE(S): Recommendation of Director of Athletics

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Athletic Department Internship is offered to students who are highly invested in Wakefield's Athletics program and wish to earn credit by helping with its execution. Students are exposed to scheduling software and websites, game day preparation and techniques, turf management practices, and inventory management. This is a regular class, and students must be able to attend on a regular basis. Sometimes students are required to lift relatively heavy objects.





TECHNOLOGY & COMPUTER SCIENCE

The Technology & Computer Science Department is dedicated to sparking passion and curiosity in our students by introducing them to the many realms and applications of technology and engineering. With immersive experiences in Wakefield's Design Lab, STEAM Lab, and Theater Tech spaces, students learn to employ the Design Thinking Process when presented with specific STEM-related challenges.

Some examples of these challenges may include using CAD programs to bring mammals envisioned in Science class to life, building and programming robots to move autonomously, coding the latest and greatest video games, and bringing theater visions to life through complex set designs and builds. This project-based, hands-on approach authentically engages students in the world of technology and intellectual curiosity.

This philosophy provides students with comprehensive exposure to all STEM components early on, allowing them to discover their passions and "voice" within the field. As students progress in Upper School, they have the agency to delve deeper into their specific interests, aligning their course selections with their passions for a more profound exploration of technology and computer science. The hopeful outcome is that students not only gain technical skills but also develop a strong sense of identity and purpose within the dynamic field of STEM.

TECHNOLOGY & COMPUTER SCIENCE COURSES

72

 Introduction to Digital Art

 Fundamentals of Drafting

 STEAM: Principles of Engineering, Art, and Design

 Digital Video Production

 Advanced Topics in Digital Art

 AP Computer Science Principles

 AP Computer Science A

 Technology Internship

Courses in Technology & Computer Science can fulfill any of the three (3) elective credits required for graduation.

TECHNOLOGY & COMPUTER SCIENCE

TECHNOLOGY & COMPUTER SCIENCE COURSES

Introduction to Digital Art

GRADE(S): 8, 9, 10, 11

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Note: Introduction to Digital Art may fulfill a Visual & Performing Arts elective requirement.

Introduction to Digital Art provides students with the tools and knowledge to create digital art and content using the programs that make up the Adobe Creative Suite. Students learn how to create and manipulate images while enhancing the use of basic and midrange tools that are available in Illustrator, Photoshop, and InDesign. Foundational artistic concepts are addressed through project-based coursework. Students learn the specific needs of real-world applications of these programs, creating professional content and compelling digital art.

Fundamentals of Drafting

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): Intro to Digital Art or Intro to Visual Arts

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Note: Fundamentals of Drafting may fulfill a Visual & Performing Arts elective requirement.

The Fundamentals of Drafting course introduces students to Computer Aided Drafting (CAD) and covers the basic concepts and techniques that can be directly applied to general and advanced-level drafting. This course will primarily use Vectorworks software, but references to other software packages may be included to familiarize the student with commonalities between CAD systems. Students will become familiar with the elements of drafting, including types of drawing, drawing techniques, and the conventional wisdom used during the production of orthographic, architectural, and drafting for engineering purposes. Students will achieve a moderate level of mastery in the use of drafting tools, graphics, lettering, line weights, sheet layout, dimensioning, and conveying information.

STEAM: Principles of Engineering, Art, and Design

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This course is a formal STEAM course that engages students with short- and long-term projects. Each project embraces the design thinking process as students are guided through the iterative journey of addressing complex problems by identifying human needs, generating ideas, prototyping solutions, and testing them in real-world scenarios. Through collaborative group work, students develop technical skills and cultivate a deep understanding of the human-centered approach to innovation in order to create products, services, or systems that are not only functional but also user-centered and meaningful. Daily engagement with tools and materials facilitates a hands-on learning experience, integrating mathematics, art, and physics to meet challenges and bring ideas to life.

Digital Video Production

GRADE(S): 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Note: Digital Video Production may fulfill a Visual & Performing Arts elective requirement.

Lights! Camera! Action! The Digital Video Production course provides students with the opportunity to explore all aspects of digital video production. For the pre-production stage, students learn the basic principles of story development, storyboarding, and writing for the screen. Instruction on the production stage covers basic visual composition and setup along with the operation of camera, sound, and lighting equipment. For post-production, students learn to use current software applications for video and audio editing and enhancement. This course is project-based, with emphasis on the use of knowledge and skills addressed to enhance experiences in Wakefield's GLO Theater & Auditorium.

Advanced Topics in Digital Art

GRADE(S): 10, 11, 12

PREREQUISITE(S): Digital Art I or Fundamentals of Drafting

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

Note: Advanced Digital Art may fulfill a Visual & Performing Arts elective requirement.

In this course, motivated, independent students have the opportunity to develop their own digital projects that may include creating a branded company with logo development, collateral, and a website. Students may experiment with programs in the Adobe Creative Suite or choose to focus on creating work centered around a specific topic or theme. Students have the freedom to experiment by blending different media types or concentrating on refining a single process to push the boundaries of their chosen medium. Throughout the course, students receive direct personal supervision in the studio to help advance and improve their skills and learn the importance of meeting deadlines.



TECHNOLOGY & COMPUTER SCIENCE COURSES (CONT.)

AP Computer Science Principles

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The AP Computer Science Principles (AP CSP) course introduces students to the essential ideas of computer science and shows how computing and technology can influence the world around them. They learn and apply the foundations of computer science to address real-world problems and are provided with opportunities to work on digital projects that showcase their interests and creativity.

AP Computer Science A

GRADE(S): 11, 12

PREREQUISITE(S): AP Computer Science Principles

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. However, due to the pacing and depth of material, this course is not taught as an introductory course for high school students; some prior computer science knowledge is necessary to complete the course. Students are expected to master fundamental topics and ideas such as problem-solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem-solving and design using Java language. The concepts in Java readily translate to Python, C, and other commonly used languages.

Technology Internship

GRADE(S): 11, 12

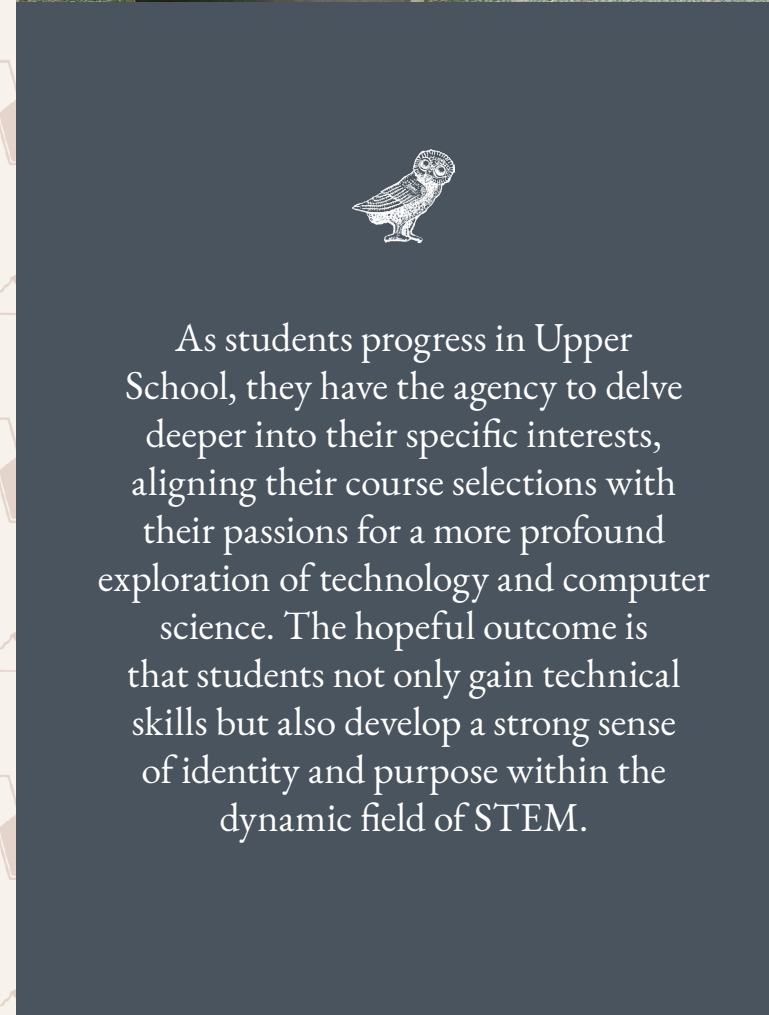
PREREQUISITE(S): AP Computer Science Principles recommended and Director of Technology approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: No

The Technology Internship program at Wakefield School is an independent, problem-based learning program that provides students firsthand experience integrating technology in an educational context. Students offer technical support and customer service to students, staff, and faculty by working directly with Wakefield's Director of eLearning and Tech Support Help Desk. They develop support resources and contribute to a technology resource webpage. Technology skills training is provided.



As students progress in Upper School, they have the agency to delve deeper into their specific interests, aligning their course selections with their passions for a more profound exploration of technology and computer science. The hopeful outcome is that students not only gain technical skills but also develop a strong sense of identity and purpose within the dynamic field of STEM.



TECHNOLOGY & COMPUTER SCIENCE



INDEPENDENT STUDIES

Independent Studies are available to Juniors and Seniors who are seeking to take a course that is not available at Wakefield School. Students will work with an independent study advisor and

Department Chair to submit a very detailed proposal to the Head of the Upper School. The Head of the Upper School is looking for applicants who have demonstrated thought and effort on their proposal and who have worked closely with their independent study advisor to develop and document rigorous curriculum-structured evaluation checkpoints and assessment rubrics. A proposal that is not fully developed will most likely not be approved or will be given back to the student for further work.

To be eligible, a student must:

1. have exhausted the school's offerings in a specific discipline.
2. have an approved independent study advisor (someone who works in the department).
3. submit a proposal to and obtain approval from the Head of the Upper School.
4. have proven academic strength with a solid work ethic.

The application for an independent study must include the following information:

1. The student's name and his or her independent study advisor's name
2. The title of the course
3. An outline or detailed description of the topics that will be studied each semester
4. The title of the book(s) that will be used for the class
5. Methods of evaluation and assessment – what work the student will be producing to show to his or her independent study advisor for a semester grade

INDEPENDENT STUDIES



By ensuring that students both pursue their already-existing passions and also uncover and develop new and unanticipated interests and potential, the Wakefield course of study is designed to fulfill Wakefield's vision of developing capable, ethical, and articulate citizens who feel empowered to take ownership of their unique learning experiences.



INDEPENDENT STUDIES

INDEPENDENT STUDY COURSES

80

- Math Independent Study

- Science Independent Study

- Social Studies Independent Study

- Spanish Independent Study

- French Independent Study

- Latin Independent Study

- Visual & Performing Arts Independent Study

- Independent Study Elective (Online)

- ARC Advanced Project Management

As independent study students should be meeting with their independent study advisors three or four times during the grading period, students may need to arrange meetings during activity periods or after-school time.

Independent study advisors will submit mid-semester comments, semester grades, and semester exam grades (or their equivalent) for each student.

For any further questions about Independent Study, please contact the Head of the Upper School.

INDEPENDENT STUDY COURSES

Math Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): Completion of AP Calculus AB

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Mathematics department at Wakefield School endorses the opportunity for independent study under the following criteria:

- The content, assessment, procedures, and process of independent study must be coordinated by a faculty member knowledgeable in the subject matter chosen for the independent study. This coordinator will oversee the student's work, establish deadlines and objectives, set time tables and evaluation criteria, and supply a syllabus.
- All independent study must be approved by the department chairperson.
- The content of an independent study shall not be a replica of a course currently being offered at Wakefield School.

Science Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): Completed Science graduation requirements

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Science department at Wakefield School endorses the opportunity for independent study under the following criteria:

- The content, assessment, procedures, and process of independent study must be coordinated by a faculty member knowledgeable in the subject matter chosen for the independent study.
- All independent study must be approved by the department chairperson.
- The content of an independent study shall not be a replica of a course currently being offered at Wakefield School.
- Topics are to be on a college level and must require active involvement of the student.
- A completed portfolio of the subject is submitted for evaluation each semester, and the appropriate exams or other assessments are administered.

Social Studies Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): Completed Social Studies graduation requirements

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Under the guidance of a Social Studies Department faculty member, this independent study will allow students to select a meaningful topic(s) and engage in original historical research. If possible, this work will be done in conjunction with a local professional historical association in which the student will be able to have additional hands-on opportunities to develop their historical research skills. In effect, the students are to assume the role of a contemporary historian as part of their independent study experience.

Spanish Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): AP Spanish

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This is a language class, so the student must include a speaking component in the proposal. Here are some possibilities for meeting that requirement:

- A schedule that allows for some participation in either the regularly scheduled AP or Spanish 4 class so that the student can participate in oral activities.
- A project in conjunction with other Wakefield teachers to work with Lower or Middle School students in Spanish.
- An outside job (paid or volunteer) that includes 30 hours/year of working in Spanish.

Meanwhile, the student would continue to study the language by selecting either a Current Events Track with regular assignments based on periodicals, a Literary Track, following the AP literature reading list, or a Film Track which would require in-depth study of Spanish-language cinema. A student could propose a combination of these aspects.

French Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): AP French

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

This is a language class, so the student must include a speaking component in a proposal for independent study. Here are some possibilities for meeting that requirement:

- A schedule that allows for some participation in either the regularly scheduled AP or French 4 class so that the student can participate in oral activities.
- A project in conjunction with other Wakefield teachers to work with Lower or Middle School students in French.
- An outside job (paid or volunteer) that includes 30 hours/year of working in French.

Meanwhile, the student would continue to study the language by selecting either a Current Events Track with regular assignments based on periodicals, a Literary Track, following the AP literature reading list, or a Film Track which would require in-depth study of French-language cinema. A student could propose a combination of these aspects.

INDEPENDENT STUDY COURSES (CONT.)

Latin Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): AP Latin

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Latin Independent Study requires extensive readings in Latin prose or poetry, chosen based on student interest, usually focusing in depth on a single author or genre. Students are also asked to engage and respond to scholarly articles about their selected texts. Students are evaluated through translation assessments, written reflection, and research writing.

Visual & Performing Arts Independent Study

GRADE(S): 11, 12

PREREQUISITE(S): Department Chair approval

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The Visual and Performing Arts Department at Wakefield School endorses the opportunity for independent study under the following criteria:

- Submittal of a portfolio, projects, presentation, performance studies history, etc., as appropriate, prepared and submitted within an approved timeline for Independent Study consideration.
- Detailed assessment is documented in the proposal to ensure the academic integrity of the Independent Study.

Given the expansive nature of the three disciplines (Art, Music, Theater) in the Visual and Performing Arts department, each Independent Study request will be reviewed independently on its own merit.

Independent Study Elective (Online)

GRADE(S): 10, 11, 12

PREREQUISITE(S): Division Head approval

REQUIRED FOR GRADUATION: Elective, unless otherwise approved by Division Head

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

Wakefield School, in partnership with the One Schoolhouse Consortium, offers students the opportunity to take online courses in an elective of their choice. The One Schoolhouse course catalog can be found [here](#). Students who elect to pursue this option should be highly motivated in their subject of choice and prepared to meet weekly course deadlines for coursework. This avenue may be especially desirable for students who have exhausted Wakefield's offerings in a particular subject and seek to further their studies. Because this course is offered through a partnership with the One Schoolhouse Consortium, an additional charge is required.

ARC Advanced Project Management

GRADE(S): 11, 12

PREREQUISITE(S): By recommendation; approval of Student Services required

REQUIRED FOR GRADUATION: Elective

LENGTH: Full Year

OFFERED FOR 2024-2025: Yes

The ARC Advanced Project Management class is designed to support 11th- and 12th-grade students in the process and completion of projects for upper-level courses, including Junior and Senior Thesis projects. Students are coached in goal-setting and accountability, scheduling, planning, research, and proofing to aid them in successfully bringing large projects to completion.





SUMMER COURSES



SUMMER COURSES

Certain courses may be made available during the summer months at minimal cost. Wakefield offers both 1 credit and 1/2 credit courses in the summer; please see the respective entries of each course for credit information.

Students may register for these courses as part of Wakefield’s Summer Program offerings conducted each spring.

| | |
|--|-----------|
| SUMMER COURSES | 86 |
| Summer Chemistry Intensive | |
| Art & Museum Studies | |
| Exploring Contemporary Cultural Issues in Bavaria | |
| Exploring Contemporary Cultural Issues in South Korea and Japan | |
| Exploring Contemporary Cultural Issues in the United Kingdom and Ireland | |
| <i>Hamilton</i> : The History Behind the Musical | |
| The Science of the Caribbean (Belize and Guatemala) | |
| Virginia History | |

SUMMER COURSES

Summer Chemistry Intensive

GRADE(S): 10, 11, 12

PREREQUISITE(S): Biology, Geometry, and Department Head approval

REQUIRED FOR GRADUATION: Yes (or General Chemistry)

LENGTH: Summer

OFFERED FOR 2024-2025: Yes

Note: Successful completion of this course fulfills the diploma requirement for one credit of Chemistry.

The Summer Chemistry Intensive is a four-week program designed to fulfill Wakefield School's one-credit Chemistry diploma requirement. This course is tailored for Wakefield School students who plan to explore five or more high school science courses, such as Advanced Placement opportunities. The course comprises three weeks of on-campus instruction and laboratories and one week of off-campus asynchronous learning.

The course runs from June 19 to July 14. Students attend classes and labs daily from 9:00 AM to 3:30 PM, Monday through Friday, with a 30-minute lunch break each day. However, from July 3 to July 7, 2024, students will work independently from home on asynchronous assignments.

Our goals in the Summer Chemistry Intensive are to examine (1) the fundamental chemical principles of the physical world, (2) the relationship between matter and energy in the chemical world, and (3) the impact of industry and consumers on the environment. Through classroom lectures and discussions, laboratory experiments, and reflections, students develop their understanding of chemistry and apply it to the problems inherent to modern society in our quest to create solutions that will build a better tomorrow.

Art & Museum Studies

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Summer

OFFERED FOR 2024-2025: No

Note: Successful completion of this course may fulfill ½ credit of either a Social Studies or a Visual & Performing Arts elective.

This three-week summer course will include the study of Western art history. We will visit one museum each week to sketch, observe, and present a work of art. Students will have the opportunity to try their hand at artmaking to experience the materials the master artists used.

Exploring Contemporary Cultural Issues in Bavaria

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Summer

OFFERED FOR 2024-2025: No

Note: Successful completion of this course may fulfill ½ credit of a Social Studies elective.

During the first week, students undergo an on-campus immersion into the culture of Bavaria. They engage in foundational lectures, workshops, and discussions led by expert faculty members in European studies, cultural anthropology, and history. Over the next two weeks, students travel through key cities in Bavaria and witness firsthand the cultural dynamics, historical landmarks, and societal nuances of this region.

Exploring Contemporary Cultural Issues in South Korea and Japan

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Summer

OFFERED FOR 2024-2025: Yes

Note: Successful completion of this course may fulfill ½ credit of a Social Studies elective.

During the first week, students undergo an on-campus immersion into the cultures of South Korea and Japan. They engage in foundational lectures, workshops, and discussions led by expert faculty members in East Asian studies, cultural anthropology, and history. Over the next two weeks, students travel through key cities in South Korea and Japan and witness firsthand the cultural dynamics, historical landmarks, and societal nuances of these regions.

Exploring Contemporary Cultural Issues in the United Kingdom and Ireland

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Summer

OFFERED FOR 2024-2025: No

Note: Successful completion of this course may fulfill ½ credit of a Social Studies elective.

During the first week, students undergo an on-campus immersion into the cultures of the United Kingdom and Ireland. They engage in foundational lectures, workshops, and discussions led by expert faculty members in European studies, cultural anthropology, and history. Over the next two weeks, students travel through key cities in the United Kingdom and Ireland and witness firsthand the cultural dynamics, historical landmarks, and societal nuances of these regions.

SUMMER COURSES (CONT.)

Hamilton: The History Behind the Musical

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Summer

OFFERED FOR 2024-2025: No

Note: Successful completion of this course may fulfill ½ credit of a Social Studies elective.

“Hamilton: The History Behind the Musical” is a summer course that asks students to critically analyze the award-winning musical *Hamilton*. Students engage in activities that provide a window into the “real” Alexander Hamilton and the life he inhabited, with particular attention paid to other main characters of the show, including Thomas Jefferson, George Washington, James Madison, the Schuyler sisters, and more.

Students evaluate portions of the musical based on historical accuracy, using Hamilton’s own writings and Ron Chernow’s bestseller, *Alexander Hamilton*, as their guide. The course also takes a look at the musical influences behind the show, a production dubbed a “love letter to hip-hop and musical theater” by the creative genius behind it all, composer and actor Lin-Manuel Miranda. The course is offered over three weeks in the summer and is held in asynchronous online format.

The Science of the Caribbean (Belize and Guatemala)

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

LENGTH: Summer

OFFERED FOR 2024-2025: No

Note: Successful completion of this course may fulfill ½ credit of a Social Studies elective.

During the first week, students undergo an on-campus immersion into Caribbean geography, climate, and biodiversity. They engage in foundational lectures, workshops, and discussions led by expert marine biology, environmental science, and cultural studies faculty. Over the next two weeks, students travel to Belize to explore firsthand the marine life of this region and to Guatemala to collaborate with local organizations on environmental projects.

Virginia History

GRADE(S): 9, 10, 11, 12

PREREQUISITE(S): None

REQUIRED FOR GRADUATION: Elective

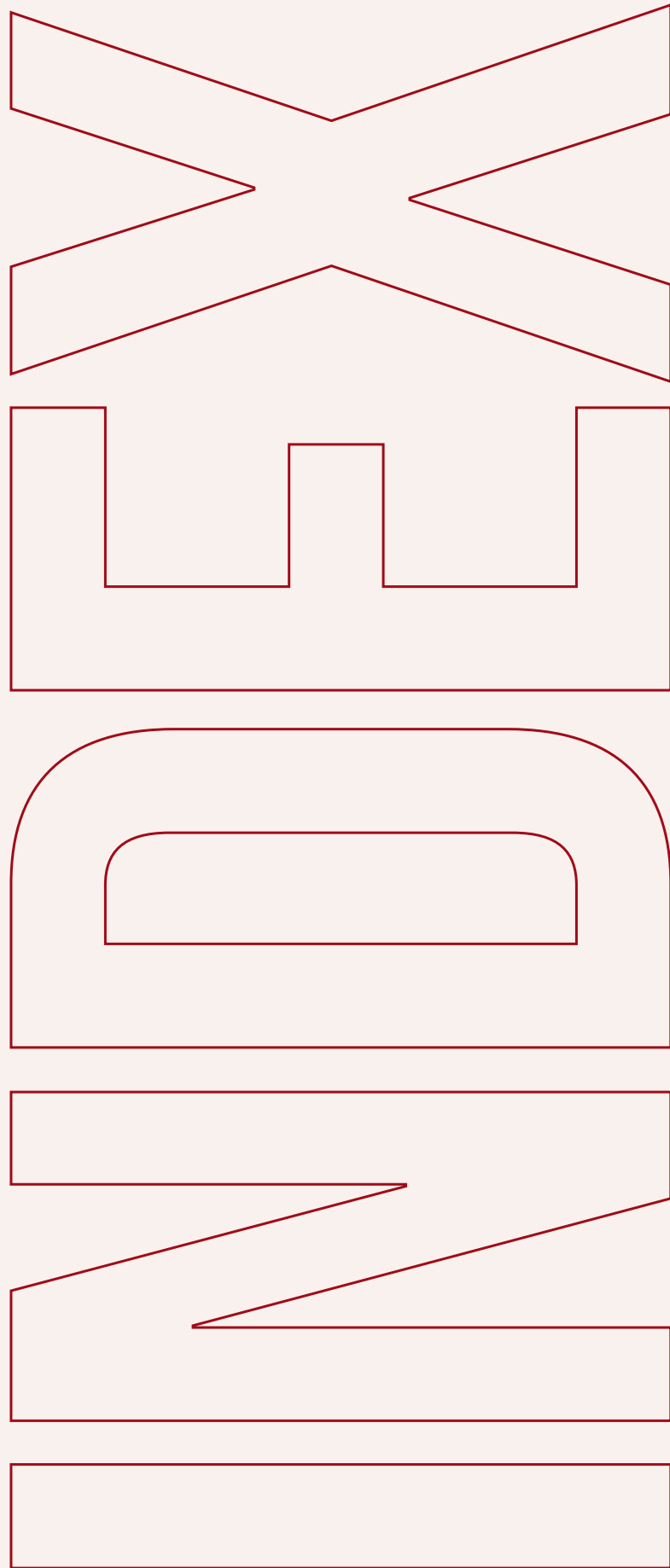
LENGTH: Summer

OFFERED FOR 2024-2025: No

Note: Successful completion of this course may fulfill ½ credit of a Social Studies elective.

Virginia History is a half-credit survey course that looks at the state’s geographic, political, and economic history from its early geological formation to the present day. The course considers broad questions such as “How does geography influence development?”, “Why did the rise of ideas such as liberty, equality, and independence coincide with the rise of slavery?” and “What will Virginia look like in 25 years based on what has already taken place?” Students emerge from the course with a deep understanding concerning the impact of location on economic development, systems of power and oppression, and how the tools of history can be used to predict the future. Depending on protocols in place during the summer, students in Virginia History may have the opportunity to take several fascinating field trips to enhance their study of course content. Finally, students who enroll in this course are in for a real treat as they encounter the little-known but enthralling history of Wakefield and its campus. Virginia History is only offered during the summer session.





06 UPPER SCHOOL COURSE OF STUDY

Graduation Requirements
Advanced Placement (AP) Courses
Dual Enrollment Courses (DE)
Drop / Add Policy

11 ENGLISH

Literature Courses

Literature 9: Philosophy & Literature
Literature 10: American Literature
Literature 11: British Literature
AP English Literature & Composition
Literature 12: World Literature

Composition & Research Courses

Composition 9
Composition 10
Composition 11: Literary Criticism
Composition 12: Senior Capstone
Composition 12: Senior Capstone (Honors)

17 MATHEMATICS

Algebra I
Geometry
Algebra, Functions, and Data Analysis (AFDA)
Algebra II
Algebra II / Trigonometry
Pre-Calculus
Transition to College Mathematics and Statistics (TCMS)
Applied Calculus
AP Calculus AB
AP Calculus BC
AP Statistics
Multivariable Calculus & Differential Equations

25 SCIENCE

General Biology
General Chemistry
Summer Chemistry Intensive
General Physics
Conservation Ecology
Local Ecology
Marine Science
STEAM: Principles of Engineering, Art, and Design
DE Biology / NVCC BIO 101 & 102
AP Chemistry
AP Environmental Science
AP Physics C: Mechanics
AP Physics C: Electricity & Magnetism

33 SOCIAL STUDIES

World Civilizations I
World Civilizations II
DE World Civilization / NVCC History 111 & 112
United States History
AP United States History
U.S. Government
Honors U.S. Government
DE U.S. Government & Politics / NVCC PLS 135
Art History
AP Human Geography
History of Rock 'n' Roll: Awopbopalooobop!
Economics
Introduction to Marketing
Personal Finance
Greek Mythology: Gods, Heroes, and Monsters
Introduction to Philosophy: The Good Life
Leadership Studies
20th Century Asia
Post WWII World History
DE International Relations / Comparative Politics, NVCC PLS 241 / PLS 140

45 VISUAL & PERFORMING ARTS

Visual Arts

Art History
Introduction to Studio Art
Studio Art I
Introduction to Digital Art
Fundamentals of Drafting
Printmaking and Clay
Black and White Photography
Digital Video Production
Yearbook I
Advanced Topics in Studio Art
Advanced Topics in Digital Art
Advanced Photography
Yearbook II

Performing Arts

Drama: Exploration of the Performing Arts
Music Theory I
Technical Theater
Vocal Ensemble I
Vocal Ensemble II
Advanced Vocal Ensemble
AP Music Theory

57 WORLD LANGUAGES

Spanish

Spanish I
Spanish II
Spanish III
Spanish IV
AP Spanish

French

French I
French II
French III
French IV
AP French

Latin

Latin I
Latin II
Latin III
Latin IV
DE Latin / NVCC LAT 201 & 202

Other

American Sign Language I

65 HEALTH SCIENCES

Introduction to Health Science
Nutrition and Wellness
Fitness for Life
Human Anatomy & Physiology
Psychology
Neuropsychology
Sports Medicine
Athletic Department Internship

71 TECHNOLOGY & COMPUTER SCIENCE

Introduction to Digital Art
Fundamentals of Drafting
STEAM: Principles of Engineering, Art, and Design
Digital Video Production
Advanced Topics in Digital Art
AP Computer Science Principles
AP Computer Science A
Technology Internship

79 INDEPENDENT STUDIES

Math Independent Study
Science Independent Study
Social Studies Independent Study
Spanish Independent Study
French Independent Study
Latin Independent Study
Visual & Performing Arts Independent Study
ARC Advanced Project Management

85 SUMMER COURSES

Summer Chemistry Intensive
Art & Museum Studies
Exploring Contemporary Cultural Issues in Bavaria
Exploring Contemporary Cultural Issues in South Korea and Japan
Exploring Contemporary Cultural Issues in the United Kingdom and Ireland
Hamilton: The History Behind the Musical
The Science of the Caribbean (Belize and Guatemala)
Virginia History





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