



**Intensified, Dual-Enrollment
and AP Classes
Wakefield Student Information**

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AP Research/Senior Project

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With Student Tips

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With Student Tips

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With Student Tips

AP CAPSTONE DIPLOMA

AP Capstone™ is a College Board program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone is comprised of two AP courses — AP Seminar and AP Research — and is designed to complement and enhance the discipline-specific study in other AP courses. Participating schools can use the AP Capstone program to provide unique research opportunities for current AP students, or to expand access to AP by encouraging students to master the argument-based writing skills that the AP Capstone program develops.

Students who undertake these courses are AP Capstone candidates, a distinction recognized by colleges and university across the country. Student receive the AP Capstone Certificate after successful completion of both courses. Capstone candidates who have also passed four other AP exams in any areas receive the AP Capstone Diploma.

AP Seminar

Full year, Grade 10-11

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision to craft and communicate evidence-based arguments.

Teacher Tips:**When do students usually take this class? What grade level?**

- 10-12. Mostly Junior Year. Ten percent of Seminar students are tenth graders No pre-requisites or art skill necessary.
- Previous or concurrent AP World and/or European History would be beneficial.
- Must be taken in Grade 10 or 11.

Why should a student take this class?

- To earn the AP Capstone Diploma or AP Capstone Certificates
- To learn skills to help them succeed in high school and college
- To acquire reading, writing, and speaking skills that will help you in high school, college, and the real world.

- To get experience building relationships with our peers, problem solving, time management, reading, writing, developing arguments, and communication skills.

What do students need to know to be successful in the course?

- Be prepared to evaluate sources for credibility
- Be prepared to conduct research
- Be prepared to write research papers
- Be prepared to present and defend your research both individually and with a team of your peers

AP Research (Senior Project for AP Capstone Candidates)

Full year, one credit, Grade 12

Prerequisite: successful complete of AP Seminar

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

Teacher Tips:**When do students usually take this class? What grade level?**

- Immediately after successful completion of AP Seminar, having earned a score of 3, 4, or 5 from the College Board.

Why should a student take this class?

- To thoroughly research a topic of your choosing over the course of a year
- To improve your writing, communication, and time management skills
- To learn more about research methodology

What do students need to know to be successful in the course?

- Be prepared to develop a research question that is interesting and important to you, and you spend the year preparing an individual research paper, presentation, and oral defense.
- Be prepared to work largely independently and meet deadlines.

Student Tips:**When do students usually take this class? What grade level?**

- Generally, 12th grade.

Why should a student take this class?

- To learn academic research and writing.
- To improve written and verbal communication.
- To deeply investigate an issue of interest.

What do students need to know to be successful in the course?

- Students need to follow provided milestones to meet deadlines.
- Students need to be in regular communication with the teacher.

FINE ARTS**Art History, AP**

Full year, one credit + 1.0 quality point, Grades 10-12

Prerequisite: None

This is an introductory college course in art history that gives students an understanding of works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. The course also teaches students visual analysis of works of art. The course covers architecture, sculpture, painting, and other art forms, and students learn to view these art works critically, with intelligence and sensitivity, to analyze what they see. The course prepares students for the successful completion of the AP Art History examination. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point.

Teacher Tips:**When do students usually take this class? What grade level?**

- Grades 10-12. No pre-requisites or art skill necessary.
- Previous or concurrent AP World and/or European History would be beneficial.

Why should a student take this class?

- To learn the history of the world through an art perspective.
- To learn, understand, and analyze better the visual world.
- To be in a dynamic, fun, and challenging class that will change the way students see the world.

What do students need to know to be successful in the course?

- Be self-motivated to work outside the class.
- Be willing to partake in class discussions.
- Be open-minded to a variety of cultures and religions.
- Be willing to take field trips to museums and galleries.
- Be able to enjoy learning.

Student Tips:**When do students usually take this class? What grade level?**

- I would recommend taking this class any year from 10-12 after you have taken some type of History or Art class.

Why should a student take this class?

- If you are interested in art work and all the deeper meaning behind it.
- If you want to see world history through art work and different perspectives.

What do students need to know to be successful in the course?

- Be aware that you will be given a lot of work back-to-back.
- Be able to think about more the visuals aspects of an art work.

AP Studio Art 2D, (Photography, AP)

Full year, one credit + 1.0 quality point, Grades 10-12

Prerequisite: None

This is an introductory college course in art history that gives students an understanding of works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. The course also teaches students visual analysis of works of art. The course covers architecture, sculpture, painting, and other art forms, and students learn to view these art works critically, with intelligence and sensitivity, to analyze what they see. The course prepares students for the successful completion of the AP Art History examination. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point.

Teacher's Tips:**When do students usually take this class? What grade level?**

- Grades 10-12. No pre-requisites or art skill necessary.
- Previous or concurrent AP World and/or European History would be beneficial.

Why should a student take this class?

- To learn the history of the world through an art perspective.
- To learn, understand, and analyze better the visual world.
- To be in a dynamic, fun, and challenging class that will change the way students see the world.

What do students need to know to be successful in the course?

- Be self-motivated to work outside the class.
- Be willing to partake in class discussions.
- Be open-minded to a variety of cultures and religions.
- Be willing to take field trips to museums and galleries.
- Be able to enjoy learning.

Student Tips:**When do students usually take this class? What grade level?**

- You take this class during senior year, after Photo III.

Why should a student take this class?

- It is really fun.
- It is a good way to push your artistic ability.
- It gives you the opportunity to do things related to photography and your community.

What do students need to know to be successful in the course?

- Time management
- Self-motivation
- A good artistic eye and a passion for photography

Studio Art 3D, AP

Full year, one credit + 1.0 quality point, Grades 9-12

Prerequisite: Art III and/or Photo III and/or recommendation of teacher

AP Studio Art is based on the serious practice of art, and students are required to submit a complete portfolio to earn the additional quality point. The course addresses three major areas: high quality in the student's art products; concentration on a particular visual interest or problem; and breadth of experience in the formal, technical, and expressive means of producing art. The students will engage in the creative and systematic investigation of formal and conceptual issues, understand the making of art as an ongoing process that requires informed and critical decision making, and develop technical skills and familiarity with the functions of the visual elements. Students are required to submit an AP Portfolio for this course. Students not submitting a complete portfolio will not earn the additional quality point. (29149)

Teacher Tips:**When do students usually take this class? What grade level?**

- Usually students take this class after successful completion of Art I, II, and III or Photo I, II, and III (with at least a B final average).

Why should a student take this class?

- To eat, breathe, and sleep art!
- To evolve students' conceptual and technical skills through independent practice.
- To experience a challenging, college-level art course.

What do students need to be successful in the course?

- Have clear understanding of the elements of art and principles of design and be able to manipulate and infuse them.
- Successfully complete the AP Studio Art summer assignment. (Failure to complete will automatically drop student from course.)
- Have focus, determination, and unwavering enthusiasm.
- Have strong organizational skills.
- Be willing to dedicate personal time EVERY DAY to work on portfolio at home. In-school studio time will not provide student with enough opportunity to satisfy portfolio requirements. Working at home is essential.

Studio Art 3D, AP

Full year, one credit + 1.0 quality point, Grades 9-12

Prerequisite: Art III and/or recommendation of teacher AP Studio Art is based on the serious practice of art, and students are required to submit a complete portfolio to earn the additional quality point. The course addresses three major areas: high quality in the student’s art products; concentration on a particular visual interest or problem; and breadth of experience in the formal, technical, and expressive means of producing art. The students will engage in the creative and systematic investigation of formal and conceptual issues, understand the making of art as an ongoing process that requires informed and critical decision making, and develop technical skills and familiarity with the functions of the visual elements. Students are required to submit an AP Portfolio for this course. Students not submitting a complete portfolio will not earn the additional quality point. (29149)

Teacher Tips:

When do students usually take this class? What grade level?

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Why should a student take this class?

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What do students need to be successful in the course?

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Student Tips:

When do students usually take this class? What grade level?

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Why should a student take this class?

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What do students need to know to be successful in the course?

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Music Theory, AP (Offered when there is adequate demand)

Full year, one credit + 1.0 quality point Grades 10-12

Prerequisite: Strong background in vocal or instrumental music, including piano

The AP Music Theory course is taught at a pace and depth equal to a college level music theory class. The course develops a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a musical score. The curriculum covers a wide range of analytical and compositional skills as well as ear training and sight singing. The course also includes creative tasks, such as the harmonizing of a melody by selecting the voicing for appropriate chords, composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation. This course will prepare students for successful completion of the AP Music Theory examination. Students who take AP Music Theory are required to take the AP exam at the end of the year. Students not taking the exam will not earn the additional quality point (29226).

Teacher Tips:**When do students usually take this class? What grade level?**

- Most students taking this class are juniors or seniors. However, sophomores with a good deal of musical experience may also be successful in this course.

Why should a student take this class?

- To improve overall music literacy.
- To learn the basics of music composition.
- To prepare for college music study.

What do students need to be successful in the course?

- Music fundamentals – this class is not for beginner musicians.
- Previous study – or preferably current study – of an instrument or voice.
- Some knowledge of the piano keyboard.
- How to practice – discipline and time management.
- How to take notes and organize materials.

Student Tips:**When do students usually take this class? What grade level?**

- You should take this class if you want to learn about what music is made up of and what a typical composition consists of. You learn how to analyze music and use what you have learned to create music. You can take this class sophomore, junior, or senior year if you have some experience with other music classes, such as band or, in my case, choir.

Why should a student take this class?

- You can have a deeper understanding of music.
- You can build your musicality.
- You can learn how to analyze music in various ways.

What do students need to be successful in the course?

- You should have a basic understanding of meter and clefs.
- You should be able to play an instrument or sight sing effectively (although the class does not require it).
- You should be able to identify and understand key signatures by the end of the fundamentals unit.
- You need to be able to have the self-discipline to learn and study on your own.
- You need to have an appreciation for music that can help you work hard.

BUSINESS AND COMPUTER SCIENCES

Computer Science, AP

Full year, one mathematics credit + 1.0 quality point, Grades 10-12

Prerequisite: Completion of Computer Science I and II with a grade of "B" or better or permission of the instructor

Advanced Placement Computer Science is a rigorous course emphasizing programming methodology, algorithms, and data structures. Emphasis is placed on applications involving arrays, linked lists, trees, and sorting techniques. Many projects involve outside-of-class practice, study, and reading. Students entering this course must have a solid knowledge of or Java programming language. This course meets the requirements for AP Computer Science as outlined in the syllabus published by the College Entrance Examination Board. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (23185) Segments of this course will be taught online, thereby satisfying the graduation requirement for a virtual course.

Teacher Tips:

When do students usually take this class? What grade level?

- Usually 11th and 12th grade.
- As an elective, any high schooler can take it.
- Prior completion of Algebra I and Introduction to Computer Science recommended.

Why should a student take this class?

- To learn to code today is like learning how to read 100 years ago.
- To take a course that provides a common criterion referred to in college admissions.
- To gain skills for careers that are” projected to grow 11 percent from 2014 to 2024, faster than the average for all occupations” (US Department of Labor). For example, cybersecurity specialists will be needed to find innovative ways to prevent cyberattacks, and the median annual wage for computer and information research specialist was \$110,620 in May 2015.
- To unlock opportunities.
- To take a course that is equivalent to a first-semester, college-level course in computer science.

What do students need to know to be successful in the course?

- Able to perform well in class, and do well on the College Board test.
- Able to design real project implementations that helps student to keep interest in the subject.
- Be disciplined, organized, curious in computer coding, and possesses an analytical mind.

Computer Science Principles, AP

Full year, one credit + 1.0 quality point, Grades 9-12

Prerequisite: Successful completion of Algebra with a “B” or better

This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to creative aspects of programming, using abstraction and algorithms, working with large data sets, understandings of the internet and issues of cybersecurity, and impacts of computing that affect different populations. APS Computer Science Principles will give students the opportunity to use current technologies to solve problems and create meaningful computational artifacts.

Teacher Tips:

When do students usually take this class? What grade level?

- Anytime

Why should a student take this class?

- To have fun.
- To get a strong understanding of computers.
- To learn and practice how to create apps.

What do students need to know to be successful in the course?

- Have strong logical thinking skills.

Student Tips:

When do students usually take this class? What grade level?

- It is a good class to take whenever in high school. There are no prerequisites.

Why should a student take this class?

- To provide you with a basic knowledge of algorithms.
- To enjoy an open class that lets you explore your creativity.
- To take a class that is structured, yet easy to follow, intellectually.

What do students need to know to be successful in the course?

- Have an interest in computers.
- Possess logic and computer skills.
- Love the internet.

ENGLISH**English 10 Intensified**

Full year, one credit

Prerequisite: High academic achievement in previous English classes. Teacher and/or counselor recommendation.

This course is designed for the needs of gifted and advanced students, and requires extensive reading, intensive grammar, advanced vocabulary, rigorous study, and high-level performance beyond that required in English 10. Students prepare for the PSAT/SAT. Students read a survey of world literature from ancient times to the present in order to compare communities from different places and times. This course is coordinated with gifted services within each school.

Teacher Tips:**Why should a student take this class?**

- To focus on enhancing analytical and narrative writing skills.
- To be exposed to a wide variety of texts, lesson formats, evaluation tools and approaches to learning.
- To take a class specifically designed to prepare for success in AP 11/12.
- To engage an enjoyment of and skill with reading and writing.

What do students need to know to be successful in the course?

- Know that this class is intensified in terms of not only the level work and expectations, but also in terms of source material, evaluation, and pace.
- Be familiar with Schaeffer writing method.
- Understand that students will be pushed – that the expected/desired grade might not come as easily as it has in the past.
- Recognize that teachers understand the previously mentioned and will do all they can to ensure student success.
- Be able and willing to dedicate an hour of out-of-class time for every 85 minutes of in-class time.

English Language and Composition, AP

Full year, one credit + 1.0 quality point, Grade 11

Prerequisite: High academic achievement in previous English classes. Teacher/counselor recommendation.

The English Language and Composition, AP course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Students will become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. Students take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (21196)

Teacher Tips:**Why should a student take this class?**

- To expand reading knowledge.
- To increase writing skills.
- To learn time management and other tools for English that I need in college.

What do students need to know to be successful in the course?

- Have calendar-based organization skills.
- Enjoy reading.
- Be open to reading texts outside of fiction.
- Commit to learning – more than just a letter grade.
- Be able to write a processed paper.
- Be clear with the Jane Schaeffer method.
- Have optimism and intrinsic motivation to do well.

Student Tips:**Why should a student take this class?**

- To improve and expand writing skills through interpreting text, which will be extremely helpful in the future for college and beyond.
- To further develop discussion and debate skills and expand views to understand other perspectives.
- Develop research skills. Use sources from research to present and expand arguments.

What do students need to know to be successful in the course?

- Be able to challenge your own ideas in order to expand your arguments.
- Be able to use different sources to write an argumentative essay.
- Know the rhetorical strategies.
- Read all the material given but also be able to understand and interpret it clearly.
- Be able to research effectively.

English 11, (College Composition) Dual Enrollment (91150W)**Full year, one credit, + 1.0 quality point Grade: 11**

Prerequisite(s): High academic achievement in previous English classes. Teacher/counselor recommendation. The NVCC entrance requirements must be met before registering.

This course will address the Virginia Standards of Learning for Grade 11 English and introduce students to critical thinking and the fundamentals of academic writing. Through the writing process, students will refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay that requires students to locate, evaluate, integrate, and document sources and effectively edit for style and usage.

• College Credit: This course may be dual enrolled at Northern Virginia Community College ENG 111 / ENG 112. The NOVA entrance requirements must be met before registering. Please consult with your school counselor for more details.

Facts from the Teacher:

- This is a class comprised of **NOVA English 111: College Composition I, 3 units (Fall Semester)** and **English 112: College Composition II, 3 units (Spring Semester)**; thus, it is arguably the fastest paced, most challenging English class offering at Wakefield, since we must cover 2 semesters' worth of college work.
- As a composition class, this course develops college-level writing and research skills; it is writing-intensive, meaning students produce 15 pages of graded writing per semester. There is less focus on reading than writing; most of the readings are nonfiction argumentative writing and college-level scholarly sources.
- This class gives students 6 units of college credit; credit is transferable to most 4-year colleges if their final grade for each semester is 70% or higher.
- As for AP classes, students receive the 1-point GPA 'bump' for taking this class.
- The class is open to and co-seats both 11th and 12th-graders (same class for both grade levels; 11th graders are also prepared for the SOLs).
- Recommending students for this class:
 - Rising 12th graders: successful in AP Lang (A, B or C average), successful in Am Civ (A or B average), consistently very successful in English 11 (A average); want to be challenged and able to commit time to this class in their senior year.
 - Rising 11th graders: successful in English 10 Intensified (A or B average), consistently very successful in English 10 (A average); ready for a challenge and able to commit time to the class. Mature enough to handle college content in 11th grade.

American Civilization (English 11 Intensified)

Full year, two periods, two credits (one credit in English and one credit in United States and Virginia History), Grade 11

Prerequisite: None

This course is designed to parallel the literature, language, and composition study of eleventh grade English. Greater attention is given to the development of practical and fine arts, as well as the social and intellectual history of the United States. Correlations are drawn between literary and historical periods of United States history. There are three end-of-course Standard of Learning assessment: reading, writing, and United States and Virginia History. Passing the SOL tests and the course earns two verified credits.

Teacher Tips:

When do students usually take this class? What grade level?

- 11th Grade, after English 10, Intensified, or after a strong showing in English 10.
- After a strong showing in Economics and Personal Finance and World History.

Why should a student take this class?

- To engage an interest in US History and American Literature.
- To take a course that directly connects English reading and History studies.
- To receive rigorous challenges.
- To prepare for English 12, AP, and Government, AP.

What do students need to know to be successful in the course?

- Able to evaluate and analyze primary source documents.
- Able to analyze and critique literary works within social, political, and historical contexts.
- Able to use previous historical contexts to support arguments about contemporary history.
- Able to make cross-curricular connections.

Student Tips:

When do students usually take this class? What grade level?

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Why should a student take this class?

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What do students need to know to be successful in the course?

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English Literature and Composition, AP

Full year, one credit + 1.0 quality point, Grade 12

Prerequisite: High academic achievement in previous English classes. Teacher/counselor recommendation.

The English Literature and Composition, AP course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller- scale elements as the use of figurative language, imagery, symbolism, and tone.

Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (21195)

Teacher Tips:**Why should a student take this class?**

- To be exposed to complex literature and varied themes generally not included in English 12.
- To focus on writing—in short, to become a better writer.
- To gain access to continual opportunities for critical thinking and for expression.

What do students need to know to be successful in the course?

- Be willing to read outside of class.
- Recognize that the work must be completed, which requires time management.
- Be in class consistently
- Be willing to take notes and ask questions and seek help when necessary
- Be curious and willing to consider new and big ideas
- Recognize that evaluations/feedback are designed to facilitate growth and understanding rather than elevate GPA

Student Tips:**Why should a student take this class?**

- To improve your reading and writing skills
- To read new and interesting books.
- To improve your time management skills.

What do students need to know to be successful in the course?

- Possess basic critical thinking skills.
- Have time management skills.
- Know how to analyze a text's use of literary devices.
- Be prepared to do the work you're assigned.
- Have a good knowledge of basic grammar.

English 12, (College Composition) Dual Enrollment (91160W)**Full year, one credit, + 1.0 quality point Grade: 12**

Prerequisite(s): High academic achievement in previous English classes. Teacher/counselor recommendation. The NVCC entrance requirements must be met before registering.

This course will address the Virginia Standards of Learning for Grade 12 English and introduce students to critical thinking and the fundamentals of academic writing. Through the writing process, students will refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay that requires students to locate, evaluate, integrate, and document sources and effectively edit for style and usage.

• **College Credit:** *This course may be dual enrolled at Northern Virginia Community College ENG 111 / ENG 112. The NOVA entrance requirements must be met before registering. Please consult with your school counselor for more details.*

Facts from the Teacher:

- Currently, this class comprises NOVA English 255: World Literature (3 credits).
- This is a 200-level literature classes, and English 112: College Composition II is a NOVA prerequisite.
- As for AP classes, students receive the 1-point GPA ‘bump’ for taking this class.
- We do seminar-style discussions, engage with literary and cultural theory, and do close readings, poetry presentations, creative projects, and advanced vocabulary study.
- This year, students will be getting 3 units of elective college credit; this may go down to just 3 units in future years per NOVA’s guidelines (covering just World Literature).
- Recommending students for this class: Again, per NOVA’s guidelines, this class is only available to students who took and passed DEComposition in 11th grade, so only 11th graders currently enrolled in DE Comp should be recommended.

World Literature (English 12 Intensified)

Full year, one credit, Grade 12 Prerequisite: Teacher recommendation

World Literature is designed to parallel English 12 in language and composition. Studies include extensive reading in comparative literature from Europe, Africa, Asia, South and Central America, focusing on the development of modern thought. Students initiate independent study projects to present to the class, participate in panel discussions and seminars, and write many short papers. Recommended for the highly motivated, disciplined student.

Teacher Tips:**Why should a student take this class?**

- To take a class less intense than AP 12 after AP 11.
- To take a class as rigorous as American Civilization.
- To get more challenge after English 11.

What do students need to know to be successful in the course?

- Be able to write a persuasive essay.
- Be able to write a personal narrative.
- Have familiarity with the Socratic Seminar process.
- Be able to confront challenges and work to overcome them.
- Be a serious student who wants to learn more than achieve a grade.

MATHEMATICS

Calculus AB, AP

Full year, one credit + 1.0 quality point, Grades 10-12

Prerequisite: Grade "C" or better in Precalculus, Intensified, and teacher recommendation. Grade "B" or better in Precalculus and teacher recommendation or grade "A" in Mathematical Analysis-Trigonometry and teacher recommendation

A review of those topics needed for the study of calculus; theory of limits, differential calculus and its applications; integral calculus and its applications, problem solving at the calculus level; and those topics which are contained in the Advanced Placement Calculus AB syllabus as given by the College Entrance Examination Board. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (23177)

Teacher Tips:

When do students usually take this class? What grade level?

- Usually in grades 11 and 12.
- After taking Precalculus, Intensified or Precalculus
- Occasionally a student who had an A in Math-Analysis Trig takes this course (usually having an A in Math-Analysis Trig)

Why should a student take this class?

- To engage an interest in completing 1 semester of college level Calculus.
- To indulge a joy for learning math.
- To complete one semester of college-level Calculus.
- To absorb information quickly and independently.
- To gain the skills needed for careers in STEM fields, business fields, economics.

What do students need to know to be successful in the course?

- Be comfortable doing arithmetic in their heads and/or on paper (i.e. without a calculator), including working with fractions.
- Have strong Algebra and Trigonometry skills.
- Be able to make connections between multiple areas of math.
- Be able to work independently, to read a textbook, and to watch videos.
- Have resilience to face math problems that are non-routine and require applications from previous math classes.
- Be willing to put in an hour per night on homework.

Student Tips:**Why should a student take this class?**

- It is not as hard as BC
- Learn math you will need in college
- Because students should want to learn more and want a challenge in their lives
- It is useful in many stem careers
To exempt out of math in college

Why should a student take this class instead of Calculus BC?

- It is not as hard and the teachers care about your learning.
- If you plan to get some AP credit in math but are not yet prepared for a full college level math course.
- I have heard that you get more help in AB
- BC goes faster and covers more units
- If you are taking other college level courses, then Calculus AB is a smart choice to stay on top of all your other work.

What do students need to know to be successful in the course?

- They need to be proficient in everything we have learned before
- Be prepared to be confused. It is perfectly fine.
- Don't fall behind and utilize all resources
- Should have solid base in algebra 1, algebra 2, and Precalculus including trigonometry
- Be prepared to spend individual time working on assignments not just classwork
- You really need to study a lot for tests
- Time Management is important

Calculus BC, AP

Full year, one credit + 1.0 quality point Grades 10-12

Prerequisite: Grade "B" or better in Precalculus, Intensified, and teacher recommendation or grade "A" in Precalculus and teacher recommendation

In addition to the topics in Calculus AB, vector functions, polar areas, volumes, sequences, and series are covered. Limits and proofs are given more stress than in Calculus AB. Details may be found in the syllabus for Calculus BC published by the College Entrance Examination Board. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (23179)

Teacher Tips:**When do students usually take this class? What grade level?**

- Usually in grades 11 and 12.
- After taking AP Precalculus or Pre-Calculus Intensified

Why should a student take this class?

- To be among the top math students in the building.
- To complete two semesters of college level Calculus.
- To indulge a joy for math.
- To absorb information quickly and independently.
- To gain the skills needed for careers in STEM fields, business fields, economics.

What do students need to know to be successful in the course?

- Be comfortable doing arithmetic in their heads and/or on paper (i.e. without a calculator), including working with fractions.
- Have strong Algebra and Trigonometry skills.
- Be able to make connections between multiple areas of math.
- Be able to work independently, to read a textbook, to watch videos.
- Have confidence in math ability.
- Have the resilience to face math problems that are non-routine and require applications from previous math classes.
- Be willing to put in an hour per lesson on homework.

Student Tips:**Why should a student take this class?**

- To place out of Calculus in college
- To challenge yourself
- To be in one of the most rigorous classes at Wakefield
- If you plan to pursue higher level math in college
- Because you think it is fun
- It covers more math than AB Calculus
- It looks good on your transcript

What do students need to know to be successful in the course?

- Have mastered all prerequisite courses
- Get over bad grades
- Be prepared to need help and to ask for it
- Do not expect questions to be straightforward
- Manage your workload. Don't take Physics C and BC Calculus at the same time.
- Be prepared to take notes yourself.
- Students need to have a strong background in all things they've learned in the previous math years specifically trigonometry because that reoccurs over and over again.

Statistics, AP

Full year, one credit + 1.0 quality point, Grades 11-12

Prerequisite: Grade "B" or better in Algebra II and teacher recommendation or grade "B" or better in Algebra II, Intensified, and pre-Calculus teacher recommendation

This course provides the advanced mathematics student the opportunity to study the topics included in the Advanced Placement Statistics syllabus as provided by the College Entrance Examination Board. Topics include the study of probability and probability distributions, descriptive statistics such as measure of central tendency and dispersion, random numbers and simulation, confidence intervals, hypothesis testing for one and two sample data, contingency tables, correlation, and regression analysis. The uses of technology and computer software to analyze data are emphasized. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point.

Teacher Tips:**When do students usually take this class? What grade level?**

- Usually in grades 10, 11 and 12.
- Any time after Algebra II.
- Students can take this class as an elective in addition to Precalculus or Calculus AB.

Why should a student take this class?

- To completing one semester of college-level Statistics.
- To take the most useful of the math courses.
- To understand ways to analyze data to make decisions in many different aspects of life.
- To gain the skills needed for careers in STEM fields, business fields, economics, social science, politics or government.
- To change how students understand the world around them.

What do students need to know to be successful in the course?

- Be willing to read a math textbook from cover to cover.
- Be willing to face word problems on a daily basis.
- Be able to think and analyze a situation.
- Be able to absorb a large number of vocabulary words.
- Have the resilience to face math problems that have more words than numbers.
- Be comfortable speaking and writing short, coherent explanations.
- Be willing to put in an hour per night on homework.

Student Tips:

Why should a student take this class?

- It is easier than multi-variable Calculus
- If you do not feel prepared for AB or BC classes, you can take them in tandem.
- It is more fun than Calculus
- It is interesting and the skills learned are important and applicable.

What do students need to know to be successful in the course?

- They should be prepared to listen and recall information for tests. They should know that it is relatively simple content and logic based tests.
- There is a lot of vocabulary so make sure you know it all.

Precalculus, Intensified

Full year, one credit, Grades 10-12

Prerequisite: Grade "B" or better in Algebra II/Trigonometry, Intensified and teacher recommendation

This course offers the student a study of the same topics as those in Precalculus (23162), but the material is covered in greater depth and enriched with more emphasis on abstract concepts and mathematical structure. It provides the student with the necessary skills and concepts for the study of calculus the following year. In addition, the following topics may be included: vectors, analytic geometry of lines and planes in space, transformations of the plane, development of the concept of the limit of a sequence, and completeness of the real number system. The uses of technology and applications are integral parts of this course.

Teacher Tips:**When do students usually take this class? What grade level?**

- Usually in grades 10 and 11, after taking Algebra 2, Intensified
- Occasionally a 12th grader will enroll in this class, especially as a transfer student.

Why should a student take this class?

- To be among the top math students in the building.
- To avoid boredom in math classes that progress at a slower pace.
- To prepare to take Calculus.
- To engage in the joy of learning math.
- To employ skills at absorbing information quickly and independently.
- To gain skills for careers in STEM fields, business, and economics.

What do students need to know to be successful in the course?

- Be comfortable doing arithmetic in their heads and/or on paper (i.e. without a calculator), including working with fractions.
- Possess very strong Algebra skills.
- Be able to make connections between multiple areas of math.
- Be able to work independently, to read a textbook, to watch videos.
- Have confidence in math ability.
- Have the resilience to face math problems that are non-routine and require applications from previous math classes.

Student Tips:**Why should a student take this class?**

- Good teachers
- Prepares you for Calculus
- The difficulty level isn't harder than Algebra II/Trigonometry Intensified

Why should a student take Intensified Pre-Calculus instead of Pre-Calculus?

- Precalculus is too slow. Intensified is faster and keeps students better informed.
- Doing the harder problems helps you understand the easier ones.
- Better preparation for Calculus
- More concepts and further in depth
- Regular Precalculus repeats much of Intensified Algebra 2.
- Colleges want to see hard classes

What do students need to know to be successful in the course?

- Algebra 2 and Geometry
- Be a fast learner
- Keep up with the homework. Though it is less important for your grade it is essential in preparing for tests.
- Ability to memorize math functions and expressions
- Be willing to ask questions

Algebra II/Trigonometry, Intensified

Full year, one credit, Grades 9-12

Prerequisite: Grade "B" or better in Geometry, Intensified and teacher recommendation or "A" in both Algebra I and Geometry and teacher recommendation

In addition to a more in-depth study of the content of Algebra II (23135) the following topics are included in this advanced course: trigonometry and trigonometric functions. The uses of technology and applications are integral parts of this course. For ninth graders only, here is an end-of-course SOL test in Algebra II. Passing the SOL test and the course earns a verified credit.

Teacher Tips:**When do students usually take this class? What grade level?**

- Usually in grades 9 and 10, after taking Geometry, Intensified
- Occasionally an 11th grader will enroll in this class, especially as a transfer student.

Why should a student take this class?

- To be among the top math students in the building.
- To remain challenged in a fast-paced course.
- To prepare to take Calculus.
- To engage in the joy of learning math.
- To employ skills at absorbing information quickly and independently.
- To gain skills for careers in STEM fields, business, and economics.

What do students need to know to be successful in the course?

- Be comfortable doing arithmetic in their heads and/or on paper (i.e. without a calculator), including working with fractions.
- Be able to solve Algebra problems with fractions.
- Be able to factor (prior to enrolling in Algebra II).
- Be able to work independently, to read a textbook, and to watch instructional videos.
- Have confidence in math ability.
- Have the resilience to face math problems that are non-routine and require applications from previous math classes.
- Be willing to do up to an hour of math homework per lesson

Student Tips:**Why should a student take this class?**

- Be able to read, analyze, and think critically.
- It is useful for future classes, college, and careers
- It helps prepare you for Calculus
- Intensified classes tend to be more challenging and goes deeper into some topics
- It is an opportunity to challenge yourself
- If you want to pursue a career in stem and have good comprehension of math, then this course is for you.

Why take Intensified Algebra II instead of Algebra 2?

- Faster
- Looks better on transcript
- Better prepares you for more math
- Introduction to Pre-Calculus topics
- It is more challenging so you get used to harder math
- Covers more subjects
- You learn more
- It is important to challenge yourself

What do students need to know to be successful in the course?

- Be Know the heart of math, basic operations
- Algebra and Geometry
- Always do your work on time. The biggest issue you can face in this class is if you put off work, you have to do it all at once
- They need to be comfortable with solving things without a calculator. Plus students need to know that the stuff they learn will not disappear forever. In fact, many times it will reappear many times in the higher levels so they need to make sure that they understand it.
- It is more demanding than normal Algebra 2 but it's rewarding in that you can cement your knowledge
- It is a flipped classroom so it is a lot of work on your part

SCIENCES**Biology, AP**

Laboratory course, Full year, one credit + 1.0 quality point per credit upon completion of both credits and AP exam, double periods, Grades 11-12

Prerequisite: Successful completion of Intensified Science sequence or first level courses in biology and chemistry and permission of the instructor

Advanced Placement Biology is a college level biology course which presents students with an in-depth study of all of the major areas of biology. The course outline has been developed by the College Entrance Examination Board based on a recent survey of college biology courses. Through this course students are prepared to take the Advanced Placement Biology examination for which college credit may be awarded. Course content reflects the following three major topics: Molecules and Cells, Heredity and Evolution, and Organisms and Populations. A rigorous laboratory program is based on the laboratory activities required in the Advanced Placement Biology syllabus. Students are required to take the AP exam associated with the two required courses. Students not taking the exam will not earn the additional quality point for either course. (24370) (24371)

Teacher Tips:

When do students usually take this class? What grade level?

- 11th or 12th grade.

Why should a student take this class?

- To satisfy an interest in biology or health care careers.

What do students need to know to be successful in the course?

- Be willing to study significantly more than they are accustomed to.
- Have successfully earned a Chemistry credit.

Intensified Chemistry

Laboratory course Full year, one credit, Grades 10-11

Prerequisite: Successful completion of Intensified Biology or Intensified Earth Science and completion or concurrent enrollment in Algebra II or permission of the instructor

This course aims to prepare students for college-level work in chemistry. The course provides a thorough introduction to the structure and behavior of atoms and molecules and the principles governing chemical reactions. Laboratory work, stressing analysis of quantitative data, is emphasized. There is an end-of-course SOL Examination. Passing the SOL test and the course earns a verified credit.

Teacher Tips:**When do students usually take this class? What grade level?**

- Usually, in 10th grade, after Intensified Biology.
- Usually after, or in conjunction with, Algebra II

Why should a student take this class?

- To prepare for AP Chemistry or other AP STEM courses.
- To prepare for college-level Chemistry.
- To learn about the structure and behavior of atoms and molecules.
- To learn about the principles governing chemical reactions.

What do students need to know to be successful in the course?

- Be prepared for extensive lab work and the analysis of quantitative data.
- Be aware that there is an end-of-course SOL exam.
- Be organized.
- Be self-motivated.
- Engage in application of principles.

Chemistry, AP

Laboratory course, Full year, one credit + 1.0 quality point per credit upon completion of both credits and AP exam, double periods, Grades 11-12

Prerequisite: Successful completion of Intensified Science sequence or first level course in Chemistry and permission of the instructor

Advanced Placement Chemistry is a college level course designed to develop an in-depth understanding of the major areas of chemistry. The curriculum is based on the topics included in the Advanced Placement Chemistry syllabus provided by the College Entrance Examination Board. Emphasis is placed on chemical calculation, mathematical formulation of principles, and laboratory work. Students are required to take the AP exam associated with the two required courses. Students not taking the exam will not earn the additional quality point for either course. (24470) (24471)

Teacher Tips:**When do students usually take this class? What grade level?**

- 11th or 12th grade, after Chemistry, Intensified or Physics, Intensified.
- Preference for juniors who completed Chemistry in grade 10

Why should a student take this class?

- To gain skills for a career in the STEM fields.
- To indulge a genuine interest in the subject.

What do students need to know to be successful in the course?

- Be able to handle the equivalent of a first level college chemistry course.
- Be willing to spend significant time outside of class practicing and studying.
- Be able to engage in higher order thinking and application.

Earth Science, Intensified

Laboratory course, Full year, one credit Grades 9-12

This course is designed for the capable and motivated student seeking a rigorous and comprehensive secondary science experience in geology, oceanography, meteorology, and astronomy. The course includes the formation of rocks and minerals; landforms and changes; interrelationships of the earth's interior, surface, and land features; a study of the solar system; and the life and death of stars.

Laboratory technique, experimentation, and analysis are emphasized. There is an end-of-course SOL Examination. Passing the SOL test and the course earns a verified credit.

Teacher Tips:**When do students usually take this class? What grade level?**

- 10-12th grade.
- Some students take this class as a third science (for advanced diploma) in 12th grade.

Why should a student take this class?

- To engage an interest in global systems.
- To get an overview of geology (heaviest amount of material... literally and figuratively), meteorology, astronomy, and oceanography (least amount of material).
- To prepare for astronomy (either Earth Space or Physics) in college.

What do students need to know to be successful in the course?

- Have some background in the scientific method and data analysis.
- Be organized.
- Be willing to seek help when necessary.
- Be prepared for a course moves quickly.
- Have completed at least one other high school science course.
- Know that tests are online, as practice SOLs.
- Understand that there are also several extended, student-centered projects.
- Be ready for diverse presentation of materials.
- Be willing to work outside of class time if necessary.
- Be willing to undertake a required Independent Project.

Student Tips:

When do students usually take this class? What grade level?

- I took this class senior year after taking Chemistry and Biology.

Why should a student take this class?

- This class is intensive with labs and activities.
- This class applies to everyday life and improves understanding of the world we live in.

What do students need to know to be successful in the course?

- Be able to ask for help and stay after for missing assignments.
- Be organized with worksheets/quizzes so you can use them to study.
- Have teamwork and social skills because there is a lot of partner/group work.
- Have a basic knowledge of how you think the world works.

Physics, Intensified

Laboratory course Full year, one credit, Grades 11-12

Prerequisite: Successful completion of Intensified Biology and Intensified Chemistry and successful completion of or concurrent enrollment in Algebra II or an equivalent course

This course is designed for highly capable and motivated students. Intensified Physics is a thorough and rigorous introduction to classical mechanics, thermodynamics, waves, light, electromagnetism, quantum mechanics, relativity, and nuclear physics on the high school level. The course emphasizes the development of mathematical and other problem-solving skills. Laboratory work involving quantitative data collection and analysis will be stressed.

Teacher Tips:**When do students usually take this class? What grade level?**

- 11th grade, mainly, though 10th and 12th grade students do sometimes take the class.
- Typically, after Biology and Chemistry.
- After or concurrent with Algebra II.

Why should a student take this class?

- To complete the core classes (Biology, Chemistry, Physics).
- To prepare for any Science elective in 12th grade.
- To develop problem solving skills.
- To prepare for Physics, AP.

What do students need to know to be successful in the course?

- Possess a strong knowledge of Algebra.
- Have strong organizational skills.

Student Tips:**When do students usually take this class? What grade level?**

- After Intensified Biology and Chemistry.

Why should a student take this class?

- If you like Science.
- If you want to eventually study Engineering in college.

What do students need to know to be successful in the course?

- Need to be very good at Algebra.
- Need to be able to do homework and online practice tests.
- Need to know conversions.
- Need to know how to do labs without much help.

Physics I, AP

Laboratory course, Full year, one credit + 1.0 quality point per credit upon completion of both credits and AP exam, double periods, Grades 11-12

Prerequisite: Successful completion of Pre-calculus or Math-Analysis/Trigonometry or completion of Physics Intensified or Physics.

This is an algebra-based physics course that is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves; and sound. It will also introduce electric circuits. Students not taking the exam will not earn the additional quality point for either course. (24578) (24568)

Teacher Tips:**When do students usually take this class? What grade level?**

- 11th or 12th grade.
- After Intensified Chemistry or Intensified Physics & Pre-Calculus or Math Analysis/Trigonometry.

Why should a student take this class?

- To demonstrate intellectual rigor for college admissions.
- To develop problem solving skills.
- To possibly prepare for STEM major in college.

What do students need to know to be successful in the course?

- Have excellent math skills.
- Possess strong organizational skills.
- Enjoy completing labs.

Student Tips:**When do students usually take this class? What grade level?**

- 11th grade, after Intensified Chemistry, or 12th grade, after Intensified Physic.

Why should a student take this class?

- To prepare you for college-level Physics.
- To learn how and why things work the way they do.
- To learn how to conduct experiments.

What do students need to know to be successful in the course?

- Know algebra.
- Perhaps be enrolled in Calculus at the same time, as the ideas match.

- This should not be your first AP class.

Physics C: Mechanics and Electricity & Magnetism, AP

Laboratory course, Full year, one credit + 1.0 quality point per credit upon completion of both credits and AP exam, double periods, Grade 12

Prerequisite: Successful completion of Intensified Science sequence or first level course in Physics and permission of the instructor. Successful completion of or concurrent enrollment in Calculus AB, AP or BC, AP.

Physics C, AP represents the first part of a university- level sequence in physics. Calculus is used to derive physical principles and to solve problems. A rigorous laboratory program is conducted that complements the advanced placement syllabus. The first semester is an in-depth study of Newtonian Mechanics and the second semester is concerned entirely with Electricity and Magnetism. Students are required to take the AP exam associated with the two required courses. Students not taking the exam will not earn the additional quality point for either course. (24570) (24571)

Teacher Tips:

When do students usually take this class? What grade level?

- 11th or 12th grade.
- Typically, the course is taken concurrently with Calculus or Multivariable Calculus.
- This course can be taken after—or instead of—Physics, Intensified.

Why should a student take this class?

- To solidify their understanding of Calculus.
- To expose students interested in science or math to the rigor of college-level courses.
- To take a course that former students say prepared them for college science.

What do students need to know to be successful in the course?

- Possess a solid understanding of math at the pre-calculus level.
- Be willing to do a lot of work.

Student Tips:

When do students usually take this class? What grade level?

- This class should be taken senior year, after taking Intensified Physics and at least Pre-Calculus.

Why should a student take this class?

- If you want a taste of what college-level Physics is like.
- If you really enjoy Physics and Math.

- If you enjoy academic challenges and advanced problem solving.

What do students need to know to be successful in the course?

- How to manage your time effectively.
- Need to have a basic understanding of Trigonometry.
- Need to know how to ask for help.
- Need to be comfortable with basic ideas in Calculus.
- Need to be organized.

Environmental Science, AP

Full year, one credit + 1.0 quality point per credit upon completion of both credits and AP exam, double periods, Grades 11-12

Prerequisite: Successful completion of two lab sciences (one life and one physical); however, students may be concurrently enrolled in Chemistry IF they have completed 2 lab sciences; satisfactory completion of or concurrent enrollment in Algebra II; permission of the instructor

Advanced Placement Environmental Science is a college level course designed to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students are required to take the AP exam associated with the two required courses. Students not taking the exam will not earn the additional quality point for either course. (24365) (24271)

Teacher Tips:**When do students usually take this class? What grade level?**

- 11th and 12th grade.
- After Chemistry or Physics (need at least 2 lab sciences).
- Pre-calculus highly recommended to be successful (concurrent enrollment or completion).

Why should a student take this class?

- To indulge an interest in learning about the environment.
- To satisfy an interest in science in general.

What do students need to know to be successful in the course?

- Be prepared for a course that moves at a fast pace (about 1 chapter per week).
- Be willing to work hard and be engaged.
- Not be afraid to do math.

SOCIAL STUDIES

United States and Virginia History, AP

Full year, one credit + 1.0 quality point, Grade 11

Prerequisite: Teacher recommendation; "B" or better in previous high school social studies and English courses

This course is part of the Advanced Placement Program of the College Entrance Examination Board which makes demands on students equivalent to those of an introductory college course. Students electing this course in place of the regular Virginia and United States History course are expected to read extensively, give time to abstract concepts and thoughts, and deal with various topics in American History. The Advanced Placement syllabus gives a complete course description. Students electing this course are expected to work with materials and texts on an advanced level. There are both an SOL Examination and an AP Exam at the end of the course. Passing the SOL test and the course earns a verified credit. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (22360)

Teacher Tips:

When do students usually take this class? What grade level?

- 10th or 11th grade

Why should a student take this class?

- To challenge myself.
- To indulge a love of history.
- To prepare for college.

What do students need to know to be successful in the course?

- Must complete a summer assignment.
- Understand that sixty percent of the class is writing.
- Understand that planning ahead is crucial.
- Know that there is between four and six hours of homework each week.
- Understand that work may be assigned over breaks in order to prepare for the AP.

American Civilization

Full year, two periods, two credits (one credit in English and one credit in United States and Virginia History), Grade 11

Prerequisite: None

This course is designed to parallel the literature, language, and composition study of eleventh grade English. Greater attention is given to the development of practical and fine arts, as well as the social and intellectual history of the United States. Correlations are drawn between literary and historical periods of United States history. There are three end-of-course Standard of Learning assessment: reading, writing, and United States and Virginia History. Passing the SOL tests and the course earns two verified credits.

Teacher Tips:**When do students usually take this class? What grade level?**

- 11th Grade, after English 10, Intensified, or after a strong showing in English 10.
- After a strong showing in Economics and Personal Finance and World History.

Why should a student take this class?

- To engage an interest in US History and American Literature.
- To take a course that directly connects English reading and History studies.
- To receive rigorous challenges.
- To prepare for English 12, AP, and Government, AP.

What do students need to know to be successful in the course?

- Able to evaluate and analyze primary source documents.
- Able to analyze and critique literary works within social, political, and historical contexts.
- Able to use previous historical contexts to support arguments about contemporary history.
- Able to make cross-curricular connections.

United States and Virginia Government, AP

Full year, one credit + 1.0 quality point, Grade 12

Prerequisite: Recommendation of eleventh grade U.S. and Virginia History teacher

This course is part of the Advanced Placement Program of the College Entrance Examination Board, which makes demands on students' equivalent to those of an introductory year in political science at the college freshman level. The course is designed for the serious student who is willing to meet the demands of an in-depth analysis of both American Government and Politics and Comparative Government and Politics. In addition, course emphasis will be given to political theory and local and state government.

Much emphasis is placed on writing and the student is expected to read extensively. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (22440)

Teacher Tips:**When do students usually take this class? What grade level?**

- 11th or 12th grade, after US History

Why should a student take this class?

- To take a course that is relevant to real life.
- To prepare for college-level work.
- To have fun!

What do students need to know to be successful in the course?

- Have some background in US History?
- Know how to ask for help (when needed).
- Be responsible when it comes to communicating with the teacher.
- Be respectful of other perspectives.
- Be committed to the idea that being challenged will help a student grow as a person.

European History, AP

Full year, one credit + 1.0 quality point Grades 10-12

Prerequisite: Teacher recommendation; “B” or better in previous social studies course

This course is part of the Advanced Placement Program of the College Board which makes demands on students equivalent to those of an introductory college course. This rigorous course introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping our world. Students are expected to demonstrate knowledge of the basic chronology, major events, movements, changes, and trends in Modern European history beginning with the Renaissance in the 1400s and ending with the creation of the European Union in the 1990s. This course stresses analytical thinking and writing skills, which are applied to document based question essays, seminars, class discussions and/or debates. The Advanced Placement syllabus gives a complete course description.

Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (22399)

Teacher Tips:**When do I take this class? What year? After which other classes?**

- Mainly 10th graders, but as an elective it is open to 9th-12th grades.

Why should I take this class?

- To indulge a joy for learning history. (Student’s academic strength is in social studies).
- To survey historic developments in Europe over the last 500 years, beginning with the Middle Ages / Start of the Renaissance.
- To learn critical thinking, writing, and historic thinking skills
- To better prepare for other challenging (AP) social studies courses at Wakefield.
- To be challenged.
- To master a variety of tasks, such as intense reading, note-taking, and essay writing.

What do I need to know and be able to do in order to be successful when I start this class?

- Have the “right” mental approach to the class. Not everything will come right away. Students might have to struggle a bit, especially in the first quarter. Be resilient, stay focused, ask for help, be open to changing the approach to studying/preparing for classes.
- Be able to keep up with the minimum requirements of the course (e.g. textbook reading ~20-25 pages a week).
- Know how to work independently (just paying attention in class is not going to be enough; Students have to work on the class assignments at home!)
- Develop or improve “historical” skills: chronology, argumentation, and primary and secondary source interpretation and analysis.
- Have some experience with writing an organized paragraph/essay.
- Have basic understanding of geography.

Economics, AP

Full year, one credit, + 1.0 quality point Grades 10-12 Prerequisite: None

This course is part of the Advanced Placement Program, which makes demands on students “equivalent to those of an introductory year in economics at the college freshman level.” Students enrolled in this course will take a semester of Macro Economics which focuses on a thorough understanding of the principles of economics that apply to an economic system as a whole. In addition, students will take a semester of Micro Economics which focuses on the principles of economics that apply to the functions of individual decision makers, both consumers and producers within the economic system.

Students are required to take the two AP exam associated with this course. Students not taking the exams will not earn the additional quality point (22806). Successful completion of this course will meet the Economics and Personal Finance graduation requirement for students. Segments of this course will be taught online, thereby satisfying the graduation requirement for a virtual course.

Teacher Tips:**When do students usually take this class? What grade level?**

- 10th grade, instead of Economics and Personal Finance.
- Can be taken in later years.
- Concurrent enrollment in Algebra II, or higher-level math is helpful.

Why should a student take this class?

- To fulfill the graduation requirement for Economics and Personal Finance.
- To engage in a fast-paced, challenging study of how consumers and producers behave in markets (microeconomics) and how the U.S. economy operates (e.g. money, banking, policy-making, and international trade (macroeconomics)).
- To use rational, logical thinking to analyze issues and solve problems.
- To gain skills for careers in public policy (political science), business, law, economics, applied mathematics, or international business/relations.
- To see the world and speak about the world like an adult.

What do students need to know to be successful in the course?

- Be ready for a challenging, college-level course. (However, doesn't require a lot of reading or writing.)
- Be ready to learn something new and interesting and practical just about every day.
- Prepared to learn new skills to make sense of the world.
- Be ready for a course that moves at a quick but regular pace—somewhat like a math course with a lot of graphs and graphic analysis although not a lot of calculating.

Human Geography, AP

Full year, one credit + 1.0 quality point Grades 9-12

This course is part of the Advanced Placement Program of the College Board which makes demands on students equivalent to those of an introductory level college course. AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. On successful completion of the course, students should have developed skills that enable them to interpret maps and analyze geospatial data, understand, and explain the implications of associations and networks among phenomena in places, recognize and interpret the relationships among patterns and processes at different scales of analysis, define regions and evaluate regionalization process, and characterize and analyze changing interconnections among places. Geographic concepts emphasized through the course are location, space, place, scale, pattern, regionalization, and globalization. Topics covered will include: nature and perspectives of geography; population and migration; cultural patterns and processes; political organization of space, agriculture, food production and land use; industrialization and economic development; cities and urban land use. The Advanced Placement syllabus gives a complete course description. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (22209)

Teacher Tips:

When do I take this class?

- 9th-12th grade
- Students who took World Geography as 8th graders are especially well-prepared for this class.
- Nationally, AP Human Geography is frequently the first AP course many students take.

Why should I take this class?

- To indulge an interest in current events and want to study more about the world.
- To engage in interpreting and analyzing data and maps.
- To learn actively through simulations, short video clips, and lots of participation.

What do I need to know and be able to do in order to be successful when I start this class?

- Know that AP Human Geography different from World Regional Geography. World Regional Geography is typically taught by “region”—Latin America, Africa, North America—while AP Human Geography is typically taught thematically—population, politics, language, religion, and culture. AP Human Geography adds in a few “models” or ways of thinking about geography.
- Be able to read a college-level textbook.
- Be prepared to read 10-15 pages each night and complete guided reading guide packets.
- Be prepared to study a map of various regions and label them
- Be willing to different points of view from their classmates who may have different opinions.
- Be willing to apply key concepts and vocabulary terms and apply them to “real life” situations.
- Be willing to actively participate in a class full of activities.
- Be prepared to interact with, interpret, and analyze data and maps.
- Be willing to work hard, as the course requires study skills and the willingness to improve them.

Student Tips:**When do I take this class?**

- Sophomore, Junior, or Senior year
- Whenever you feel you are ready.

Why should I take this class?

- It has less content than other course (only 7 units).
- To learn about current events.
- To learn about and gain a better understanding of the world.

What do I need to know and be able to do in order to be successful when I start this class?

- Be prepared to take a college level course.
- Be ready and eager to participate in class and interact with others.
- Have an interest in geography and the world.
- Be ready to constantly consult with your teacher.
- Be able to take notes.
- Be eager to read the news.

Psychology, AP

Full year, one credit + 1.0 quality point Grades 11-12 Prerequisite: Recommendation of current social studies teacher

The science of behavior is psychology. The purpose of the Advanced Placement Psychology course is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Major topics in the AP course include the following: I. methods, approaches, and history. II. biological bases of behavior. III. sensation and perception. IV. states of consciousness. V. learning. VI. cognition. VII. motivation and emotion. VIII. developmental psychology. IX. personality. X. testing and individual differences. XI. Psychological disorders. XII. Treatment of psychological disorders. XIII. social psychology. Students take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (22902)

Teacher Tips:**When do I take this class?**

- 10th, 11th, or 12th grade.
- A previous regular Psychology course is not required; it may be helpful for some students who may need additional support in background knowledge.

Why should I take this class?

- To learn about oneself.
- To learn about others.
- To learn actively through activities, simulations, short video clips, and lots of participation.
- To earn college credit.

What do I need to know and be able to do in order to be successful when I start this class?

- Be able to read a textbook on 10th grade level. The textbook has bolded, italicized words, charts, pictures, and headings. The author has a strong voice and incorporates many stories within the text. Students should be prepared to read 10-15 pages each night and take detailed notes.
- Be prepared to study vocabulary terms and apply vocabulary terms to real life situations. Then, if a student does not do as well as expected on a test, the student should take initiative to complete assigned remediation and retake the test.
- Be willing to participate in class, including coming to class fully prepared.
- Be willing to learn many new vocabulary terms and apply them to “real life” situations.

Student Tips:**When do I take this class?**

- Sophomore, Junior, or Senior year

Why should I take this class?

- It is interesting.
- To learn about human behavior, both your own and that of others.

- To think at a higher level.
- To earn college credit by excelling on the AP exam.

What do I need to know and be able to do in order to be successful when I start this class?

- Be fully motivated to work hard and do your best every class.
- Have a strong desire to earn a high score on the AP Psychology exam.
- Have good study habits.
- Be open to learning new concepts.
- Be ready to work through new and complex content.
- Be prepared to put in a lot of effort.
- Ask for help.

WORLD LANGUAGES

French Language and Culture, AP

Full year, one credit + 1.0 quality point Grades 9-12

Prerequisite: Grade of "B" or better in the preceding level or teacher recommendation

This course is designed for students who demonstrate a high level of fluency and can understand material on concrete and abstract topics. This course prepares students for the Advanced Placement examination in French. Students will demonstrate their abilities in all language skills (listening, speaking, reading, and writing) in various ways, such as writing coherent summaries, descriptions, narrations, and essays. They will comprehend, analyze, and discuss a variety of spoken and written texts, representing literary works, contemporary life and popular culture. Students will continue to refine syntax and mechanics of French both orally and in writing, demonstrating a more advanced control of language and also a deeper understanding and use of idiomatic expressions. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point. (25165).

*** There is a required Summer Assignment.

Teacher Tips:

When do students usually take this class? What grade level?

- Students typically take this class after successful completion of French 5 with an A or B.
- Highly motivated students who complete French 4 with an A could enroll directly in AP French with French teacher recommendation, but we have typically seen a 1-point drop in AP scores when this is done. Students with lower grades should discuss recommended placement with French teacher.
- **The recommended path is French 4 - French 5 - AP French.**
- Typically, this course is for seniors, but juniors could also take this class.
- This class is not recommended for freshmen.

(Students who have not been previously studying French at Wakefield, but are already fluent in reading, writing, speaking and listening in French are encouraged to enroll in French 5, and then AP French the following year. If they have strong speaking skills, but are not as proficient in other areas, they should begin APS French studies in lower levels. They should discuss Credit- by-Exam with guidance and/or placement with the World Language department chair.)

Why should a student take this class?

- To take challenging, culminating course for French at the high school level to develop the speaking, writing, listening and reading skills of the language while gaining a better understanding of the French- speaking world.
- To possibly earn college credit or advanced placement into higher levels of French at the college level, either through AP exam scores or on a college's French placement exams.
- To perhaps place out of required language college courses. It may allow a student to place out of required language college courses.

- To earn the Virginia Seal of Bilingual Proficiency, by scoring a 3 or higher on the AP exam and meeting the qualifications in English. (In recent years, all Wakefield students have earned a 3 or higher on the AP French exam.)

What do students need to know to be successful in the course?

- Participate in French for 90-minutes in immersion (speaking, listening, reading, writing in French)
- Interpret reading/listening of authentic documents/resources from various francophone countries
- Understand graphs, charts, statistics in French about various topics
- Write paragraph length discourse with accuracy in grammar, using transitions and complex sentences
- Present orally with minimal support or preparation for 2 minutes in French
- Maintain a conversation on a variety of topics (asking and answering questions)
- Make various types of comparisons between one's own community and a French-speaking community

Spanish Language and Culture, AP

Full year, one credit + 1.0 quality point Grades 9-12

Prerequisite: Grade of "B" or better in the preceding level or teacher recommendation

This course is designed for students who demonstrate a high level of fluency and can understand material on concrete and abstract topics. This course prepares students for the Advanced Placement examination in Spanish Language. Students will demonstrate their abilities in all language skills (listening, speaking, reading, and writing) in various ways, such as writing coherent summaries, descriptions, narrations, and essays. They will comprehend, analyze, and discuss a variety of spoken and written texts, representing literary works, contemporary life, and popular culture. Students will continue to refine syntax and mechanics of Spanish both orally and in writing, demonstrating a more advanced control of language and also a deeper understanding and use of idiomatic expressions. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point (25555).

*** There is a required Summer Assignment.

Teacher Tips:

When do students usually take this class? What grade level?

- Students typically take this class after successful completion of Spanish Immersion 9, Spanish Immersion 10, and Spanish for Fluent Speakers III. Students should have received A or B in those classes in order to move to AP.
- Highly motivated students who complete Spanish V could enroll in AP Spanish Language by teacher's recommendation.
- This course is not recommended for ninth graders.

Why should a student take this class?

- This is a challenging course for Spanish at the high school level to develop the speaking, writing, listening and reading skills of the language while gaining a better understanding of the Hispanic world.
- If the students want to take AP Spanish Literature, they need to take this class first.
- It will allow students the possibility of **earning college credit** or advanced **placement into higher levels of Spanish** at the college level, either through AP exam scores or by preparing the student for success on a college's Spanish placement exams.
- Earning a 3 or higher on the exam will also qualify the student to **earn the Virginia Seal of Biliteracy**, if they also meet the qualifications in English.

What do students need to know to be successful in the course?

- The class is taught 100% in Spanish.
- Students are expected to communicate in Spanish at all times.
- Students should have strong study habits, organizational skills, and work ethic to be successful in this class.
- Be able to write paragraph length discourse with accuracy in grammar, using transitions and complex sentence structures

- Be able to speak the target language and maintain a conversation on a variety of topics (asking and answering questions)

Student Tips:

When do students usually take this class? What grade level?

- This class works well after Spanish Immersion in 9th grade

Why should a student take this class?

- Get exposed and introduced to many elements of Hispanic culture.
- Gain experience for future AP classes.
- Use this class towards an AP Capstone Diploma.

What do students need to know to be successful in the course?

- Need to be ready to participate in Spanish.
- Try to be informed of events in Latin America through the news or social media.
- Know how to write paragraphs and essays correctly and effectively.
- Know how to analyze documents from many Hispanic authors.
- Be ready to engage in discussions and conversations.

Spanish Literature, AP

Full year, one credit + 1.0 quality point Grades 9-12

Prerequisite: Grade of "B" or better in the preceding level or teacher recommendation

This course is designed for students who demonstrate a high level of fluency and can understand material on concrete and abstract topics, including literary texts representing various genres and literary styles.

This course prepares students for the Advanced Placement examination in Spanish Literature, AP. The curriculum exposes students to a wide range of literature from across Spanish speaking countries. Students will study literature and civilization in greater depth and will demonstrate proficiency in Spanish across all language skills, with a focus on a critical reading and analytical writing. In addition, this course approaches the study of literature through various cultural contexts, allowing students to understand the literary texts they read while at the same time relating this content to many other areas of learning and connecting it to their own life. Students are required to take the AP exam associated with this course. Students not taking the exam will not earn the additional quality point.

Teacher Tips:**When do students usually take this class? What grade level?**

- Students take this class **ONLY** after they have successfully completed AP Spanish Language and Culture.
- This class is recommended for juniors and seniors.

(**Note:** Due to the amount of required readings and the fast-paced of the class, new students should not be allowed to start in the class after the fourth week of the school year.)

Why should a student take this class?

- If students are planning to major or minor in *Spanish Language* or *Spanish Literature* in college, this class will help them develop their Spanish language proficiency and their cultural understanding through reading and critical analysis of literature written in Spanish.
- Bilingual students taking AP Spanish Literature before or at the same time they take AP English Literature, will be able to make connections between both classes and benefit from it.
- It will allow students the possibility of **earning college credit** or advanced **placement into higher levels of Spanish** at the college level, either through AP exam scores or by preparing the student for success on a college's Spanish placement exams.
- Earning a 3 or higher on the exam will also qualify the student to **earn the Virginia Seal of Biliteracy**, if they also meet the qualifications in English.

What do students need to know to be successful in the course?

- This is a fast-paced class.
- This is a class for a mature and hardworking audience. Students should have strong study habits, superior organizational skills and work ethic to be successful in this class.
- Students must enjoy literature, and have superior speaking, writing and reading-comprehension Spanish skills.

Student Tips:**When do students usually take this class? What grade level?**

- After taking AP Spanish Language—sophomore, junior, or senior year.

Why should a student take this class?

- To read, understand, and discuss famous novels and stories in Hispanic/Latino/Spanish culture.
- To deepen your Spanish vocabulary.
- To engage in real-world discussion, which will improve global awareness, social skills, and self-esteem.
- To further strengthen knowledge gained in AP Spanish Language.
- To understand the differences between modern and classic Spanish literature.

What do students need to know to be successful in the course?

- Be open-minded to the perspectives of others.
- Be able to speak Spanish in order to contribute to discussions with enthusiasm.
- Be able to speak, read, and write Spanish excellently.
- Be able to compare and contrast Spanish and English literature.
- Read the novels.
- Study the vocabulary.
- Take notes.
- Be organized.

Entrepreneurship, Dual-Enrolled (BUS 116)

Full year, one high school credit and three college credits from NOVA

Prerequisite: Placement scores or exemptions needed to take dual enrolled courses.

Entrepreneurship, BUS 116, is a college level course which provides opportunities for students to learn the process of developing, financing, and marketing a new business, product or service through an interactive curriculum. The course covers various aspects of financing an entrepreneurial venture and an in-depth study of entrepreneurial marketing strategies and start up techniques. The course will examine how small to medium sized businesses with distinct needs market within limited budgets. Classroom instruction is supplemented with industry guest speakers, field experiences and hands on activities.

Teacher Tips:

When do students usually take this class? What grade level?

- 11th and 12th grade, 10th graders make earn the college credits with an exemption package.

Why should a student take this class?

- To learn about marketing and how products move from concept to consumer.
- To learn the basics of business and finance.
- To start and run your own business and make your own money from running that business.
- To participate in a pitch competition and a business plan competition where you present in front of a panel of judges and can win monetary prizes.

What do students need to know to be successful in the course?

- Know that this is a college level class and you will be completing college level work.
- Understand that students will be pushed to succeed and create a successful business plan.
- Be willing to improve your public speaking and presentation skills.
- Be willing to actively participate in a class full of activities and projects.

Student Tips:

When do students usually take this class? What grade level?

- Eleventh or twelfth grade. Maybe tenth grade but you need special permission.

Why should a student take this class?

- To learn to manage money.
- To get tips on how to start a business.
- To have a lot of fun.

What do students need to know to be successful in the course?

- Have a basic understanding of economics.
- Study for the tests.
- Finish the business pitch during class time.
- Be brave enough to speak in front of class.
- Enjoy the class.