

# Trivium Prep Senior Course Selection Meeting

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January 23, 2024

# Course Options for Senior Year

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- **REQUIRED** Classes to graduate for all Trivium Prep Seniors

- **Humane Letters IV**
- **Senior Thesis**
- **Fine Arts (Drama/Studio Arts)**

\*Optional courses will be determined by the courses left that need to be completed, as well as the colleges and academic programs the student plans on applying to

- Students have options for their remaining two classes\*

- **Physics II**
- **Calculus I or II**
- **Spanish IV, French IV or Greek II**
- **American Rhetorical Tradition**
- **Logic and Computation**

# PHYSICS

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## **Physics II: Electricity, Magnetism, and Optics**

- Length/Credits: 2 semesters/1 credit (.5 credit each semester) Intended Audience: Grade 12
- **Prerequisites:** H. Physics 1  
**Major Outcomes:** Students will continue to discover and explore themes in physics through laboratory experiments and problem solving. Students will discuss real world applications of the material.
- **Instructional Focus:** Honors Physics II is a continuation of Honors Physics I. They will continue to build upon their understanding of physics by learning about electric and magnetic fields, circuits, and electromagnetism. Students will end by exploring topics of waves, light, and optics. There is a lab component to this class which allows students to have the opportunity for hands on problem solving. Students will continue to develop their problem solving and critical thinking skills.



# CALCULUS

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## Calculus I

- Length/Credits: 2 semesters/1 credit (.5 credit each semester)  
Intended Audience: Grade 11/12
- Phillip-Exeter Academy Course 4.
- Curriculum was developed by Phillips Exeter Academy in Exeter, NH. As stated on their website, students will investigate pre-calculus concepts including ellipses and hyperbolas, exponential and logarithmic functions, dot products, and matrices. In particular, logarithms are used to straighten nonlinear data; and matrices are used to describe geometric transformations and various patterns of growth. In preparation for calculus, two strands are introduced: first, combinatorics and recursion, leading to the binomial theorem; second, approximation behavior, especially instantaneous rates of change and slopes of nonlinear graphs. The latter part of the course will include topics like complex numbers, polar coordinates, expected value, recursion, functional notation, slope, velocity, asymptotes, the fundamental constant, and the Euler identity.

## Calculus II

- Length/Credits: 2 semesters/1 credit (.5 credit each semester)  
Intended Audience: Grade 12
- James Stewart Calculus 8th edition Volume two
- Calculus II course was developed by James Stewart. James Stewart's texts are known for their mathematical precision. Math scholars taking calculus II at Trivium Preparatory Academy will cover concepts such as Integrals, Applications of integrations (ie: Average value of Functions), Differential Equations, Parametric Equations, Infinite Sequence and Series. This course is designed to focus on Integrations by looking into the areas between curves, strategies for integration, arc length and finally applications to Physics and Engineering.

# SPANISH

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- **Spanish IV**
- Length/Credits: 2 semesters/1 credit (.5 credit each semester) Intended Audience: Grade 12
- Advanced Literature. In Advanced Spanish IV, the student continues the exploration of the Spanish Language. literature. Canonical literary works, primarily from Spain, make up the reading list. These texts will also vary in genre and will reflect the progression of Spanish language literature throughout several centuries. This final year of Spanish includes some of the foundational texts in Spanish literature, including *Lazarillo de Tormes*, and selections of *Don Quijote*. Students are expected to draw heavily on their previous encounters with the literature and culture evoked in the readings. They continue to complete one project per quarter, which may include presentations on literature, art, creative compositions and analytical essays.



# FRENCH

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## French IV

- Length/Credits: 2 semesters/1 credit (.5 credit each semester) Intended Audience: Grade 12
- French IV covers the major genres of French literature: poetry, drama and novels. The texts studied will span from the 17th to the 20th century. During the first semester we will study some poetry and drama, while the second semester is dedicated to novels. Students will become acquainted with a variety of literary texts, develop proficiency and creativity in writing, and study multiple genres (poetry, drama, novels) in order to expand the students' grasp of language and culture.
- The course also introduces the students to methods of literary analysis, while providing opportunity for students to engage in advanced conversational situations, through the readings of the following novels by Voltaire, *Candide ou L'optimisme*, George Sand, *La Mare au Diable*, Guy De Maupassant : *Pierre et Jean* and Albert Camus *L'Etranger*, and a single drama by Molière : *L'école des femmes*.
- Grammar is studied in response to areas of difficulty in speaking and writing.

# GREEK

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## Greek II

- Length/Credits: 2 semesters/1 credit (.5 credit each semester) Intended Audience: Grade 12
- **Prerequisites:** Greek I
- This course continues the introduction to Attic Greek. The primary focus of the first semester is the continued acquisition of Greek morphology, syntax, and vocabulary, with the aim for its future application in the translation of ancient authors such as Euripides, Aristophanes, Plato, and Homer.



# LOGIC & COMPUTATION

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## Logic and Computation

- The art and science of computation predates the modern computer by centuries, and in fact is built upon the art of logic going all the way back to authors such as Aristotle. The modern computer is a physical model for repeated uses Boolean logic in the same way that the abacus is a physical model for repeated steps for performing numerical computation.
- The goals of this course are to give students (1) a grounding in the progression of logic from Aristotle through Boole, (2) a foundation in basic coding, and (3) the philosophical connection between the two, (4) initiation into seeing the world through the lens of computation, which is proving a rethinking of the world on a scale at least as large as the introduction of calculus caused, and (5) an understanding of the limits of formal logic and computation. All of this is oriented towards the end of getting students to think computationally and algorithmically.



# RHETORIC

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## The American Rhetorical Tradition

- Rhetoric has been a staple of western education since classical times. Famous Americans, from Thomas Jefferson to Martin Luther King Jr., have drawn much from their classical forbearers, ultimately creating their own rich tradition of oratory. While Rhetoric can be simply defined as the art of being well-spoken, many in the tradition of been wary of mere eloquence. John Quincy Adams said, “. . . eloquence is, according to the manner in which it is applied, either a blessing or a curse; the pest of nations, or the benefactress of humankind.” At their best, great Americans throughout the centuries have used eloquence as both a blessing and a benefactress.
- This course teaches the art of rhetoric as generated by the classical world and exposes students to the robust American tradition of oratory. Students will learn this famous liberal art by being instructed in rhetorical theory, by imitating the best writings and speeches America has to offer, and by regularly producing original compositions. Throughout the course they will both learn and practice: the various types of rhetoric, the progymnasmata exercises, the five canons of rhetoric, the three modes of persuasion, and much more. All of this will be done through exemplars of American oratory, such as Madison’s *The Federalist Papers*, Lincoln’s “Second Inaugural Address”, The Lincoln Douglas Debates, and Martin Luther King Jr.’s “I have a Dream” speech. The goal of course *is not* to produce mere well-spoken young men and women. On the contrary, this course has in mind the cultivation of eloquent young men and women who love truth, goodness, and beauty as embodied in our common American heritage.

# Google Forms

Due  
Friday 1/26

- After this meeting, College Counseling will send an email with two important Google Forms (both due Friday, January 26):
  - Senior Course Selection
    - In this form, students indicate their 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> choices for their optional courses. We cannot promise that they will receive their 1<sup>st</sup> choice, so it is helpful to know the order of their preferred courses.
  - Transcript Auditing Form
    - Students and parents will need to look over current transcripts which are in Naviance and check for any errors.



# Trivium Example Transcript

This is an example of a graduated senior final transcript.

You/your student will only have junior year 1<sup>st</sup> semester's grades at this point.

Trivium Prep Student  
12345 Address  
City, State Zip  
ID: 000000  
DOB: 01/01/2000  
GRADE: 12

GreatHearts®  
OFFICIAL TRANSCRIPT

Trivium Preparatory Academy  
2001 N. Bullard Avenue  
Goodyear, AZ 85395  
Phone: 623-866-4730  
Fax: 623-866-4729  
CEEB: 030759

	Sem 1	Sem 2	Year													
<i>17-18 Trivium Preparatory Academy</i> 8 Advanced Algebra	P 0.50	P 0.50		<div>Transcript Notes</div> <div><b>Humane Letters</b> The 8 credits of Humane Letters include 4 credits of English, 1 credit of American History, 0.5 credit of U.S. Government, 0.5 credit of Arizona History, 1 credit of World History/Geography, and 1 credit of Ancient History. The full titles of the courses are: <b>Honors Humane Letters I:</b> The American Tradition <b>Honors Humane Letters II:</b> The Rise of Modern Europe <b>Honors Humane Letters III:</b> Ancient Greece <b>Honors Humane Letters IV:</b> Rome to Modernity  <b>Honors Courses</b> Honors courses (designated by an 'H.') receive an extra point in the weighted GPA for all passing grades.  <b>GPA and Credits</b> Only the grade point and credit hours earned from courses successfully completed at a Great Hearts academy are used in the computation of the student's grade point average (GPA). Credits for coursework completed outside the Great Hearts curriculum are added to the student's cumulative or total credits. Courses listed with a grade of "P" indicate successful completion for credit but no GPA points earned.  <table><tr><td><b>Unweighted GPAs</b></td><td><b>Total Credits Earned:</b> 25.25</td></tr><tr><td>Grade 9: 4.000</td><td><b>Unweighted GPA:</b> 4.000</td></tr><tr><td>Grade 10: 4.000</td><td><b>Weighted GPA:</b> 4.854</td></tr><tr><td>Grade 11: 4.000</td><td><b>Graduation Date:</b> 05/26/2017</td></tr><tr><td>Grade 12: 4.000</td><td><b>Senior Thesis:</b> <i>Man's Search for Happiness</i></td></tr><tr><td></td><td><b>Result:</b> High Pass</td></tr></table> <b>AZ Civics Test:</b> Passed on 05/15/2014</div>	<b>Unweighted GPAs</b>	<b>Total Credits Earned:</b> 25.25	Grade 9: 4.000	<b>Unweighted GPA:</b> 4.000	Grade 10: 4.000	<b>Weighted GPA:</b> 4.854	Grade 11: 4.000	<b>Graduation Date:</b> 05/26/2017	Grade 12: 4.000	<b>Senior Thesis:</b> <i>Man's Search for Happiness</i>		<b>Result:</b> High Pass
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Grade 12: 4.000	<b>Senior Thesis:</b> <i>Man's Search for Happiness</i>															
	<b>Result:</b> High Pass															
<i>18-19 Trivium Preparatory Academy</i> 9 Poetry I		A 0.50														
9 H. French I	A 0.50	A 0.50														
9 H. Humane Letters I	A 1.00	A 1.00														
9 H. Geometry	A 0.50	A 0.50														
9 Music Theory III/Choir	A 0.50															
9 H. Biology	A 0.50	A 0.50														
<i>19-20 Trivium Preparatory Academy</i> 10 H. French II	A 0.50	A 0.50														
10 H. Economics	A 0.50															
10 H. Humane Letters II	A 1.00	A 1.00														
10 H. Pre-Calculus	A 0.50	A 0.50														
10 Music Theory IV/Choir		A 0.50														
10 H. Chemistry	A 0.50	A 0.50														
<i>20-21 Trivium Preparatory Academy</i> 11 Studio Art III		A 0.50														
11 Drama I	A 0.50															
11 H. French III	A 0.50	A 0.50														
11 H. Humane Letters III	A 1.00	A 1.00														
11 H. Calculus I	A 0.50	A 0.50														
11 H. Physics I	A 0.50	A 0.50														
<i>21-22 Trivium Preparatory Academy</i> 12 Studio Art IV		A 0.50														
12 Drama II	A 0.50															
12 H. Humane Letters IV	A 1.00	A 1.00														
12 H. Calculus II	A 0.50	A 0.50														
12 H. Logic and Computation	A 0.50	A 0.50														
12 Senior Thesis & Defense	P 0.12	P 0.12														
12 H. Physics II	A 0.50	A 0.50														
Grading Scale																
HONORS		NON-HONORS														
A (5.00) = 100-93		A (4.00) = 100-93														
A- (4.67) = 92-90		A- (3.67) = 92-90														
B+ (4.33) = 89-88		B+ (3.33) = 89-88														
B (4.00) = 87-83		B (3.00) = 87-83														
B- (3.67) = 82-80		B- (2.67) = 82-80														
C+ (3.33) = 79-78		C+ (2.33) = 79-78														
C (3.00) = 77-73		C (2.00) = 77-73														
C- (2.67) = 72-70		C- (1.67) = 72-70														
D+ (2.33) = 69-68		D+ (1.33) = 69-68														
D (2.00) = 67-63		D (1.00) = 67-63														
D- (1.67) = 62-60		D- (0.67) = 62-60														
F (0.00) = 59-0		F (0.00) = 59-0														



# Washington DC Senior Trip Example Itinerary

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- Day 1 – Fly to DC, Visit Monuments
- Day 2 – National Mall, Holocaust Museum
- Day 3 – Gettysburg
- Day 4 – National Archives, Library of Congress, U.S. Capitol
- Day 5 – Ford Theatre, Lincoln Monument, Night Tour
- Day 6 – Arlington Cemetery
- Day 7 – Return home



# Washington DC Senior Trip 2025

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March 1-7, 2025  
(week before spring break)

Cost \$2024.00 –  
can be paid in payments

Payment Portal is  
currently open.

You can make initial  
payment of \$184 by  
February 1<sup>st</sup> and then the  
1<sup>st</sup> of every month \$184  
will be automatically  
deducted.

December 1<sup>st</sup> final  
payment of all remaining  
amount will be deducted.

Look for email with  
information coming soon.

# Washington DC Senior Trip Eligibility

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Conditions that will put your eligibility under review by the Headmaster:

1. Any failed class your Senior year.
2. Any grade that is deficient as of the date of the Senior Trip.
3. Any Senior Thesis that is not turned in on time and approved.
4. Any In-school Suspension or Out-of-school Suspension during Senior year.
5. Any Senior not on track to graduate.

\* Refunds will not be given after September 1<sup>st</sup> if you have paid and your student does not meet these eligibility requirements