# Arrupe Virtual Learning Institute
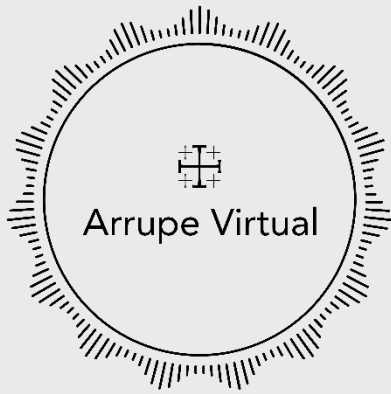
Venturing beyond the classroom in Catholic schools

# 2025 - 2026 Course Catalog

"Our prime educational objective must be to form men-and-women-for-others… This kind of education goes directly counter to the prevailing educational trend practically everywhere in the world… **What, then, shall we do?** Go with the current or against it?"

*- Father Pedro Arrupe (1973)*

# A Note from our Chief Academic Officer

**Welcome to the Arrupe Virtual Learning Institute.** Your school is making AVLI courses available to you as a way of providing additional course options so you can pursue interests that will help you grow to be your personal best. Beyond challenging course content, an AVLI experience fosters important life and learning skills, and provides opportunities to learn with and from teachers and students from schools across North America.

I invite you to join us, and encourage you to bring an open mind, an open heart, and a willing spirit.

Gabrielle Martin
**Chief Academic Officer**

# What to Expect from AVLI Courses

## Learning

Beyond mastering the subject material, our hope for you is that you grow as a learner. Working hard in your online course will help you develop time management skills, discipline, self-advocacy, and more. You will also come to better appreciate your learning strengths and weaknesses, thus maturing into an independent learner which will serve you well in college and beyond.

## Instructors

AVLI teachers are seasoned educators. They are experienced in the subject area in which they teach and have gone through extensive training in the development and delivery of online courses.

## Format & Time Commitment

Our courses run on a traditional semester-based schedule utilizing the type of platform and online format that students might expect to experience in college. Though the formats and schedules differ from course to course, most are very flexible in design to allow students to complete their AVLI work around their existing school and extra-curricular schedules. Here are some important points about the AVLI experience:

- We value your time and try to use it well. Our courses require as much time as any other course. If you add up the time you spend in class, doing homework, and studying for any given course, that's about how much time each week your AVLI course will require. Obviously, higher-level courses like AP courses require more time just like they would in your face-to-face school. **Generally, this falls into the range of 5-7 hours per week.**
- Regular engagement matters. You can't skip weeks in an AVLI course just like you can't skip weeks at your face-to-face school. Teachers monitor participation and assignment submission to help students stay on track.
- Courses are largely Asynchronous, Teacher-led, and Cohort-based. These are important distinctions that warrant careful explanation.
  - **Asynchronous***:* While each course will offer one synchronous (i.e. "live") online meeting time per week, course tasks and activities are mostly asynchronous, meaning students do not have to be present online at a certain time each day. This allows students to work around their other in-school classes. Courses often use learning activities such as recorded lessons,

discussion forums, readings, and assignments. Students usually complete many of these tasks independently during their school day. Teachers are available throughout each week via email should a student have questions or need support. Synchronous sessions are then often used for supplemental instruction, Q&A, group work, or extension activities.

o **Teacher-led and cohort-based:** While students often work quite independently, our courses are not considered "independent" or "self-paced". Our teachers design their course materials, set the course schedule, work closely with students to facilitate, and monitor their progress, and support the building of a community among the class cohort. Learning tasks are assigned deadlines throughout each week to which students are expected to adhere.

# Classmates & Community

Your classmates will be young women and men from other schools across North America. It is the shared responsibility of all the class' participants, both students and teacher, to build a rich learning community. Your support system can extend beyond the course as well, and at AVLI we believe in helping you build and maintain that structure. Because students perform better when their experience occurs as part of a supportive environment, regular communication is sent to students, parents, and schools regarding student progress.

# Cost

There is often an additional cost associated with taking an AVLI course. This cost can differ from school to school so for more details please speak with your school's administration team.

# Still Have Questions?

Still trying to decide if an AVLI course is right for you? Talk with your school advisor / counselor or contact Ms. Gabrielle Martin at Arrupe Virtual: (877) 729-5852 ext. 106, or gmartin@arrupevirtual.org.

# COURSE LIST

*Click a course name to view additional information.*

| WORLD LANGUAGES | SOCIAL STUDIES* |
|---|---|
| AP Spanish Literature & Culture *(DC eligible)* | AP African American Studies |
| American Sign Language I | AP Comparative Government & Politics *(DC eligible)* |
| American Sign Language II | AP European History |
| American Sign Language III | AP Macroeconomics *(S)* *(DC eligible)* |
| French I | AP Microeconomics *(F)* *(DC eligible)* |
| French II | AP Psychology *(DC eligible)* |
| Latin I | AP US Government & Politics *(DC eligible)* |
| Latin II | AP World History *(DC eligible)* |
| Spanish I | Genocide & the Holocaust *(S)* |
| Spanish II | Intro to Business & Entrepreneurship *(F)* |
| **MATHEMATICS** | Intro to Sociology *(F)* |
| Accounting I *(F)* | Law & Society *(F)* |
| AP Calculus BC *(DC eligible)* | Model United Nation/International Relations *(S)* |
| AP Statistics *(DC eligible)* | Psychology Fundamentals |
| Linear Algebra & Differential Equations *((DC eligible)* | **COMPUTER SCIENCE** |
| Multivariable Calculus *(DC eligible)* | AP Computer Science A *(DC eligible)* |
| Statistics & Probability Foundations *(S)* | C++ Programming *(S)* |
| **SCIENCE** | Computer Game Development *(S)* |
| AP Environmental Science | Computer Science Principles *(F)* |
| Astronomy: An Introduction *(S)* | JavaScript Programming *(F)* |
| Engineering Principles *(F)* | Understanding AI: The Science & Morality *(F)* |
| Intro to Anatomy & Physiology *(S)* | **ENGLISH & COMMUNICATIONS** |
| Intro to Biochemistry *(F)* | Catholic Authors*(S)* |
| Intro to Veterinary Careers *(S)* | Comic Book Fiction *(S)* |
| Medical Terminology & Career Exploration *(S)* | Multimedia Authorship: The Power of Words & Images *(F)* |
| **ART** | **THEOLOGY*** |
| AP Art History* *(DC eligible)* | Bioethics: Navigating Ethical Dilemmas of our Future *(F)* |
| AP Music Theory *(DC eligible)* | Bioethics: Navigating Ethical Dilemmas of our Future *(S)* |
| Digital Photography *(F)* | **Other*** |
| Advanced Digital Photography *(S)* | Introduction to Design Thinking *(S)** |

*KEY - F: fall course; S: spring course. No F or S indicates it's offered full-year. DC - Dual Credit*
*\*Schools might choose to list AP Art History as a Social Studies course and/or Catholic Authors as a Theology course. Intro to Design Thinking can be listed as Art, Science, Social Studies, or Business.*

# Course Schedule

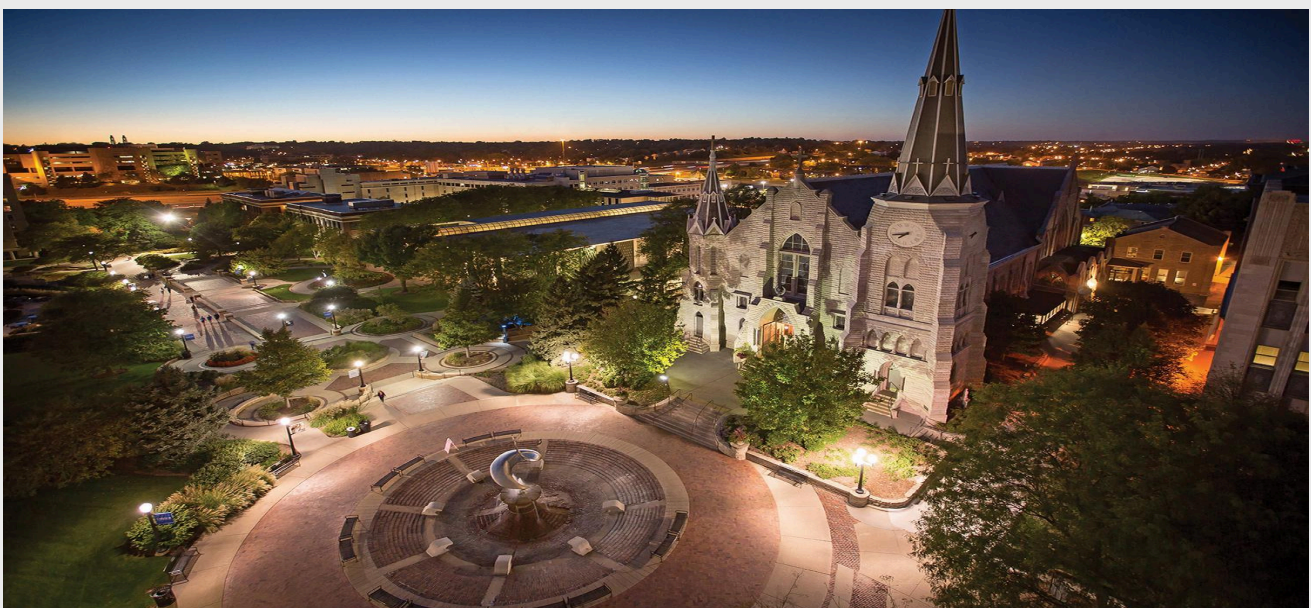| Year-Long Courses | September 4, 2025 – May 1, 2026 | 1.0 Credit per Class |
|---|---|---|
| Fall Term Courses | September 4 – December 12, 2025 | 0.5 Credits per Class |
| Spring Term Courses | January 8 – May 1, 2026 | 0.5 Credits per Class |

# Advanced Placement & Dual Credit

## Advanced Placement

AVLI offers a variety of Advanced Placement (AP) courses, all of which are College Board approved. AP testing is coordinated through the student's school. Like most schools, AVLI expects students to sit for the College Board's subject exam after taking the AVLI's AP course, with some exceptions. When available, students may choose to apply for dual credit in lieu of or in conjunction with taking the AP exam.

## Dual Credit with Creighton University

AVLI has a dual credit partnership with Creighton University, a premier Jesuit university in Omaha, Nebraska. Students are eligible to receive 3 hours of college credit for select AVLI courses (noted in the **course list**). To qualify, students enroll in the course and pay traditional course fees. They will then be provided the option of applying for credit for an additional fee of $110[*] paid to the University. **See more dual credit information here.**

*2023 fee rate and is subject to change at the discretion of Creighton University.*

# YEAR-LONG COURSES

## AP African American Studies

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $75

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with rich and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Coursework is rigorous and will prepare students to sit for the AP College Board exam in the spring.

The course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

## AP Art History

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Art **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $100

The AP Art History course explores topics such as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history. Coursework is rigorous and will prepare students to sit for the AP Art History College Board exam in the spring.

The course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# AP Calculus BC

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Mathematics **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $50 and access to a TI-84 Calculator

AP Calculus BC will cover all of the topics associated with AP Calculus AB including limits & continuity, differentiation, integration, and graphical analysis. Additional Calculus BC topics include convergence tests for series, Taylor and/or Maclaurin series, parametric equations, polar functions, L'Hôpital's rule, integration by parts, improper integrals, Euler's method, differential equations for logistic growth, and using partial fractions to integrate rational functions.

This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. There is a required student-instructor check-in each week, which most students accomplish through attending the synchronous meeting over Zoom. Meeting times will be determined at the start of each term

# AP Comparative Government & Politics

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Social Studies **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $80

AP Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, show available institutional alternatives, explain differences in processes and policy outcomes, and communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policymaking.

This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# AP Computer Science A

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Computer Science **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $100
- PREREQUISITES: Students have successfully completed a programming language course: C, C++, Visual Basic .Net, or Java and have a computer with administrator rights Access. Students should know how to edit, compile, and run a program.

This course is an AP level introduction to object-oriented programming in Java. Students will focus on a problem-solving approach designed to focus attention on programming algorithms and data structures. Students will be fluent in the syntax and logic structures of the Java programming language and familiarity with the Java API. Students will attempt difficult programming challenges, reflect on these exercises, and share their discoveries with peers. In the spring, students will be eligible to take the AP exam offered by the College Board at their school.

This course requires weekly engagement but is primarily asynchronous which allows students to work independently and around their school schedule. One-on-one synchronous teacher support is offered as needed, by appointment.

# AP Environmental Science

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Science
- APPROXIMATE RESOURCES COST: $0 (optional textbook costs about $60)
- PREREQUISITES: Chemistry and Biology

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students will be expected to view daily videos on the AP Classroom website and answer topic questions to check their comprehension.

Unit progress checks and tests will be accessed on the AP Classroom site at the conclusion of each topic with a variety of virtual activities to be completed in each unit. Following this protocol, students should be well prepared for the AP exam offered by the College Board at their school in the spring. This course requires weekly engagement but is primarily asynchronous allowing students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# AP European History

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $50

In AP European History, students investigate significant events, individuals, developments, and processes from about 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary & secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course to make connections among historical developments in different times and places: interaction of Europe & the world, economic & commercial development, cultural & intellectual development, states & other institutions of power, social organization & development, national & European identity, and technological & scientific innovations.

This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# AP Music Theory

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Fine Arts **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $85

The AP Music Theory course corresponds to two semesters of typical introductory college music theory class. Topics include musicianship, theory, musical materials and procedures, dictation and listening skills, sight-singing, and harmony. The goal is to develop the ability to recognize, understand and describe basic materials and processes of tonal music that are heard or presented in a musical score.

Notational skills, speed, and fluency with basic materials are emphasized. Students who complete this course are encouraged and eligible to take the AP exam in the spring. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. There is no weekly scheduled class meeting but one-on-one synchronous teacher support is offered as needed, by appointment.

# AP Psychology

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Social Studies **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $50

AP Psychology offers a general introduction to Psychology that is comparable to a first-year college course. The course surveys the major topics of psychology including: psychology's early history to the present, neuroscience & behavioral genetics, sensation & perception, cognition (memory, intelligence, & language), motivation & emotion, states of consciousness, learning, development, personality, research methods, social dynamics, psychological disorders, and therapeutic methods.

This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# AP Spanish Literature & Culture

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: World Languages **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $80
- PREREQUISITES: Fluency in speaking, reading, and writing in Spanish

Following the College Board curriculum, this course is "designed to provide students with a learning experience equivalent to an introductory college course in literature written in Spanish. It introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course provides opportunities for students to demonstrate their proficiency in Spanish across the three modes of communication: interpersonal, interpretive, and presentational and the five goal areas: communication, cultures, connections, comparisons, and communities outlined in the Standards for Foreign Language Learning in the 21$^{st}$ Century. The overarching aims of the course are to provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills — with special attention to critical reading and analytical writing — and to encourage them to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish."

This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# AP Statistics

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: Mathematics **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $60

This course prepares students to take the AP Statistics Exam administered by the AP Central College Board. It develops an intuitive, non-calculus- based understanding with an emphasis on doing statistics. Statistics make sense of data; it consists of a set of tools that allow us to make inferences in the face of uncertainty. Statistical methods draw from the Gaussian (normal, bell shaped) distribution as well as the binomial and chi-square distributions. We learn about data description concepts, hypothesis testing, probability, discrete and random variables, several inferential techniques, regression, and how to plan and carry out a properly designed statistical analysis. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# AP United States Government & Politics

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: Social Studies **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $75

Students in AP United States Government and Politics will analyze the contemporary nature and function of the American political system. Students will examine the scope and framework of the United States government's institutions and structures. Students will also explore the process through which the political system operates and the factors impacting political participation. Students will understand how public policy is adopted, implemented, and impacts our lives. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# AP World History

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: Social Studies **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

AP World History is structured around the investigation of key course themes and concepts in six different chronological periods, from approximately 1200 C.E. to the present. These themes, examined across cultures and time periods, include interaction between humans and the environment, development and interaction of cultures, state-building, expansion and conflict, creation, expansion and interaction of economic systems, and the development and transformation of social structures. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. There is a required synchronous meeting that will take place one evening every three weeks, as well as a weekly office hour that is optional. Meeting times will be determined at the start of each term.

# American Sign Language I

- RECOMMENDED FOR: Freshmen, Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- APPROXIMATE RESOURCES COST: $65

Did you know that American Sign Language (ASL) is the third most commonly used language in North America? In this course, students will learn the manual alphabet, introductory vocabulary, and simple sentences needed to communicate at a basic level. Additionally, students will explore Deaf culture, including social beliefs, traditions, history, values, and communities influenced by deafness. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# American Sign Language II

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- PREREQUISITES: American Sign Language 1 or equivalent
- APPROXIMATE RESOURCES COST: $65

Continue your journey through the worlds of EARth and EYEth. Now it's time to level up. Communication is our compass—whether you're navigating directions you just received to downtown or classifiers, or you're deciphering ASL literature—you'll enjoy the journey. So, grab a snack, and maybe a drink too, and let's dive in!

The course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# American Sign Language III

- RECOMMENDED FOR: Juniors, and Seniors
- COURSE LISTING: World Languages
- PREREQUISITES: American Sign Language 2 or equivalent
- APPROXIMATE RESOURCES COST: $65

On the next step of your journey through the worlds of EARth and EYEth, you'll follow three friends: a Deaf chef, a drummer, and an inspiring actress through their daily lives and friendship. Get ready to slice and dice like a chef, critique some entertainment for a vlog, reminisce on childhood memories, play some games, and do a little traveling. Along the way you will get to dive deeper into Deaf culture and even get an inside look into the lives of some famous Deaf people. So, what are you waiting for? Let's hit the road!

The course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# French I

- RECOMMENDED FOR: Freshmen, Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- APPROXIMATE RESOURCES COST: $65

In this introductory course, students will learn the basic elements of French grammar, syntax, and vocabulary to help build basic fluency and language proficiency. Students will work towards being able to engage in short conversations in French and explore the cultures of France and francophone Europe by learning about geography, foods, celebrations, and traditions from each place. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students.

# French II

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- PREREQUISITES: French 1 or equivalent
- APPROXIMATE RESOURCES COST: $65

French II builds on the fundamental skills learned in French I and increases student listening, speaking, reading, and writing skills in French. Students will also learn about the geography, foods, homes, celebrations, and traditions from overseas French territories. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students.

# Latin I

- RECOMMENDED FOR: Freshmen, Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- APPROXIMATE RESOURCES COST: $65

In this introductory course, students will learn the basic elements of Latin grammar, syntax, and vocabulary. Students will explore the mythology, history and culture of Rome and apply what you learn through translation practice, writing, listening, and conversation exercises, while reading Roman stories that have stood the test of time. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students.

# Latin II

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- PREREQUISITES: Latin 1 or equivalent
- APPROXIMATE RESOURCES COST: $65

In this course, students will expand grammar and vocabulary skills and step back in time into Rome's intriguing past. They will explore classical cultures and apply what they learn through translation practice as well as writing, listening, and conversation exercises.This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students.

# Linear Algebra & Differential Equations

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Mathematics **(Dual Credit Eligible with Creighton)**
- PREREQUISITES: Successful completion of AP Calculus BC
- APPROXIMATE RESOURCES COST: $75

This course will cover the essentials of Linear Algebra and Differential Equations. While proofs will be discussed and explained, students will be required to apply concepts within various contexts such as engineering, biology, economics, physics, statistics, computer science and more.

The course is split into two halves. The first half topics include linear equations in the context of linear algebra, matrix algebra, determinants, eigenvalues and eigenvectors, and orthogonality (culminating in Least-Squares problems). The second half of the course includes the topics of first-order differential equations and their modeling (including separable equations, linear equations, and exact equations), higher-order differential equations and their modeling (including homogeneous linear equations with constant coefficients, approaches to undetermined coefficients, variation of parameters, Cauchy-Euler equation and Green's Function), numerical solutions of ordinary differential equations.

This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. There is a required student-instructor check-in each week, which most students accomplish through attending the synchronous meeting over Zoom. Meeting times will be determined at the start of each term

# Multivariable Calculus

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Mathematics **(Dual Credit Eligible with Creighton)**
- PREREQUISITES: Successful completion of AP Calculus BC with a score of 4 or 5 on the AP exam.
- APPROXIMATE RESOURCES COST: $55

Focusing on the study of fundamental theorems and applications of multivariable calculus, this course extends to the calculus of one-dimension studied in AP Calculus BC to Euclidean spaces of arbitrary dimension. The course begins with vectors and moves to the theory of partial derivatives and vector fields. Multiple Riemann integrals and their applications are covered in term 2, as well as important theorems of vector calculus including the theorems of Green, Gauss, and Stokes. A nontrivial amount of real analysis and point-set topology will be studied to facilitate the development of certain multivariable calculus concepts. This increased sophistication allows students to see more clearly how multivariable calculus is a beautiful generalization of single-variable calculus. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. An optional synchronous meeting takes place one evening per week. One-on-one support is also available by appointment.

# Psychology Fundamentals

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Psychology/Social Studies
- APPROXIMATE RESOURCES COST: $50

This non-AP level introductory course offers the same general introduction to psychology concepts as seen in AP Psychology but with a slightly more relaxed pace and depth. It is an excellent choice for students who are keen to explore an interest in the subject matter. Major topics of psychology include: Psychology's early history to the present, neuroscience & behavioral genetics, sensation & perception, cognition, motivation & emotion, states of consciousness, learning, development, personality, research methods, social dynamics, psychological disorders, and therapeutic methods.

This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Spanish I

- RECOMMENDED FOR: Freshmen, Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- APPROXIMATE RESOURCES COST: $65

In this introductory course, students will learn the basic elements of Spanish grammar, syntax, and vocabulary. Students delve into topics like school, daily escapades, food preferences, nationalities, family, sports, music, clothing, transportation, and weather while also discovering the richness of different Spanish-speaking countries. The goal is to master the basics—the key to unlocking Spanish conversations. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students.

# Spanish II

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: World Languages
- PREREQUISITES: Spanish 1 or equivalent
- APPROXIMATE RESOURCES COST: $65

Spanish II builds on the fundamental skills learned in Spanish I. Students will explore facets of daily routine, community life, health, childhood memories, and vacations. Language skills are sharpened through learning about clothing, body parts, numbers, medical visits, cardinal directions, travel logistics, accommodations, plants, cultural practices, music, fairy tales, childhood games, and celebrations. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students.

# FALL 2025

## Accounting I

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Mathematics
- APPROXIMATE RESOURCES COST: $50

Accounting is an essential aspect of every business. In this course, students will learn accounting for a sole proprietorship business organization. Students will analyze financial statements and learn the accounting cycle by working through application problems and applying accounting concepts to real-world situations. This course is primarily asynchronous, allowing students to work at their own pace for weekly assignments. There is a required synchronous meeting that will take place. Meeting times will be determined at the start of each term.

## AP Microeconomics

- RECOMMENDED FOR:  Sophomores, Juniors and Seniors
- COURSE LISTING:  Social Studies **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $20

How should faithful Catholics think about economics? This course integrates selected themes from the Neo Scholastic School of Economics with the content of the AP Economics syllabus in microeconomics. The course prepares students for the AP exam and offers a way to view our redeemed creation through the prism of social science. The economic way of thinking does not begin with Adam Smith, but based on insights from Aristotle, St. Augustine, St. Aquinas, the Jesuit and Franciscan theologians at Spain's University of Salamanca during the sixteenth and seventeenth centuries, and on the Popes' social encyclicals. We develop our understanding of basic economic concepts and analytic tools by anchoring them to our faith's moral traditions and foundations. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Bioethics: Navigating Ethical Dilemmas of our Future

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Theology
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

The purpose of this course is to deepen the ethical and moral competence of students who are interested in the healthcare field. Medical decisions are some of the most difficult decisions we have to make. In this course, students will learn how to make these decisions by closely examining beginning and end of life issues, the ethics of medical research, justice concerns in the medical field and emerging technologies in medicine. This course is taught from a Catholic perspective and students will learn the teaching of the Catholic Church through the Ethical and Religious Directives for Catholic Healthcare Services. Students will also be free to discuss their own moral views in discussion forums and projects. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# Computer Science Principles

- RECOMMENDED FOR: Freshmen,  but open to Sophomores. Juniors and Seniors
- COURSE LISTING: Computer Science
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

This course introduces students to a wide array of important computer science topics. Students will learn the ideas and practices of computational thinking and how computers impact the world around us. Topics covered include basic computer vocabulary, bits and bytes, programming, abstraction, internet and networking. Another important aspect of the course is learning how to collaborate with other students. Each student will be put in groups and work together to meet the objectives of the module. Collaborating with other students is essential to success in this course, as well as a much-needed life skill. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. There is a required synchronous meeting that will take place during one evening or weekend day per week. Meeting times will be determined at the start of each term.

# Digital Photography

- RECOMMENDED FOR: Freshmen, Sophomores, Juniors and Seniors
- COURSE LISTING: Art
- APPROXIMATE RESOURCES COST: $150 - $450 for the camera (depending on source) or $0 if borrowed from a friend/relative or school

*Students must have access to a Digital SLR camera and the ability to use it outside of school.* Digital Photography is a semester course designed for beginning photographers. Students will learn the basics of photography and fine-tune their camera skills. The course will also cover composition and the principles of design that work to create an aesthetically pleasing photo. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term. Synchronous Individual Support meetings are available upon request, by appointment.

# Engineering Principles

- RECOMMENDED FOR: Sophomores, Juniors and Seniors
- COURSE LISTING: Science
- PREREQUISITES: Physics and Geometry
- APPROXIMATE RESOURCES COST: $50

This course takes students on a "doing" tour of the discipline of engineering and several of its sub-disciplines including mechanical engineering, electrical engineering, and computer engineering. Students will learn the engineering design process and computer aided design and apply it to "hands-on" projects. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. This course also explores the engineering approach for problem solving. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Introduction to Biochemistry

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Science
- PREREQUISITES: Biology and Chemistry
- APPROXIMATE RESOURCES COST: $100

This course provides an overview of the main aspects of biochemistry, especially as related to human biology. Topics will include a thorough study into the four major biochemical families including proteins, carbohydrates, lipids, and nucleic acids. Select biochemical functions will be discussed in the context of chemical structures and of specific chemical principles for each of the families of molecules (for example: enzymes and enzyme regulation, carbohydrate needs in the body, lipid functions, and nucleic acid structures). Finally, the course provides an overview of metabolism and metabolic pathways which are fundamental to understanding molecular biology. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Introduction to Business & Entrepreneurship

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $50

So you want to be an entrepreneur? There's more to it than you might think! This course introduces fundamental components of business and entrepreneurship (focusing primarily on startups), giving students the opportunity to work on real-world problems. Students will practice working in groups, scoping deliverables, setting deadlines, talking to stakeholders, and making presentations. Beyond learning about business, we will take a deep dive into collaboration and the skills it takes to be successful. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Introduction to Sociology

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

Sociology touches on the essential concepts of sociology with an emphasis on contemporary American social themes. The main units of study are cultural analysis, family dynamics, gender studies, racial and ethnic inequality, socioeconomic stratification, and crime and deviance. The course requires students to perform scholarly research, prepare and perform numerous presentations, engage in class dialogues, and process information through various writing exercises. The sociology classroom demands academic determination and a desire to engage in discussions. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# JavaScript Programming

- RECOMMENDED FOR:  Sophomores, Juniors, and Seniors
- COURSE LISTING: Computer Science
- APPROXIMATE RESOURCES COST: $25

This course introduces students to computer programming using the JavaScript programming language. JavaScript is an object-oriented programming language similar to Java, Swift, C# or Python. It is the language behind the internet and crucial for any aspiring programmer to learn. In this course, students will learn basic programming concepts including variables, control-flow, loops, functions, and data structures. Through a variety of projects, students will practice these skills and learn how to write high quality code. Previous computer science experience is not required for this course. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# Law & Society

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $60

Law & Society features the study of the political nature of state and federal level courts, while paying particular attention to contemporary issues related to the judiciary.  The course will provide a foundation for legal study through surveying the historical development of the courts, controversial issues surrounding the essence of court authority, state and federal court structures and operations, and case study areas related to civil rights and liberties. Students will have the unique opportunity to become acquainted with fundamental aspects of the American legal system and be afforded educational exposure to issues applicable as both citizens and students in the historical field of law. Class methods will include discussion, lecture, case-summary writing, historical research, and other related techniques. Note: this course is not designed to be the basis of professional legal training. It is a general survey course designed to provide students with historical and contemporary practical learning material. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered weekly for students, as well as on demand, by appointment.

# Multimedia Authorship: the Power of Words & Images

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: English, Communications, Practical Arts, Media Studies
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

This course aims to develop communication skills through expressing ideas using multimedia technology. Students will study models of multimedia composition used by professional and student writers and then create their own multimedia content, pushing students to master the concepts and technical skills the composition requires. To fully participate in the class, students must have a computer (Mac or Windows) on which they can install new programs and access to a digital camera. The semester will culminate with each student producing an original, substantive multimedia project on a topic of the their choice. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule.  One-on-one synchronous teacher drop-in support time is offered each week for students.

# Understanding AI: The Science & the Morality

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Computer Science
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

In this course, students will explore the emerging fields of machine learning and Artificial Intelligence (AI). AI systems are all around us, from predictive text in our emails and customer service chatbots, to the curation of the media that we consume. Understanding how AI works will help students understand its promise and its limitations. Students will learn how AI systems 'think', how to train an AI, and explore the various applications of AI in our world today through hands-on labs. Students will also spend time discussing the morality of AI systems and take a critical look at the way that these systems are shaping our world. Previous Computer Science experience is helpful but not required. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# SPRING 2026

## AP Macroeconomics

- RECOMMENDED FOR:  Sophomores, Juniors, and Seniors
- COURSE LISTING:  Social Studies **(Dual Credit Eligible with Creighton)**
- APPROXIMATE RESOURCES COST: $20

This course integrates selected themes from the Neo Scholastic School of economics with the content of the AP Economics syllabus in macroeconomics. The course prepares students to do well on the AP exam and offers a way to view our redeemed creation through the prism of social science. The economic way is based on insights from Aristotle, St. Augustine, St. Aquinas, the Jesuit and Franciscan theologians at Spain's University of Salamanca during the sixteenth and seventeenth centuries, and on the Popes' social encyclicals. We develop our understanding of basic economic concepts and analytic tools by anchoring them to our faith's moral traditions and foundations. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Advanced Digital Photography

- RECOMMENDED FOR: Freshmen, Sophomores, Juniors, and Seniors
- COURSE LISTING: Art
- PREREQUISITE: At least one previous course in Digital Photography
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

*Students must have access to a Digital SLR camera and the ability to use it outside of school.*

This course is an extension to the 1$^{st}$ semester Digital Photography course with students deepening their mastery of key camera functionality, composition, and design principles as applied to developing personal expression and creativity. This course requires weekly engagement but is primarily asynchronous, allowing students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Astronomy: An Introduction

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Science
- APPROXIMATE RESOURCES COST: $15

Most of us are familiar with spectacular images from space missions and telescopes, and we've heard terms like "galaxies" and "black holes" tossed about in popular films. What we can sometimes forget is how those abstract terms and images are actually connected to the sky we can see overhead every night (at least when it's not cloudy!) This course aims to make those connections. It provides an introduction to the solar system, stars, the interstellar medium, the galaxy, and the universe. But it also teaches us how to look at the sky itself, to become familiar with the Moon, planets, and stars we can see for ourselves; where they are and how they move from hour to hour, season to season. It is also designed to force students to think like scientists – separating fact from theory, studying relationships between objects in search of patterns, and more. This course requires weekly engagement, including required weekly naked-eye observations of the sky; but is primarily asynchronous, which allows students to work around their school schedule. One-on-one synchronous teacher support is offered on demand by appointment.

# Bioethics: Navigating Ethical Dilemmas of our Future

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Theology
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

The purpose of this course is to deepen the ethical and moral competence of students who are interested in the healthcare field. Medical decisions are some of the most difficult decisions that we have to make, and in this course, students will learn how to make these decisions, closely examining beginning and end of life issues, the ethics of medical research, justice concerns in the medical field and emerging technologies in medicine. This course is taught from a Catholic perspective and students will learn the teaching of the Catholic Church through the Ethical and Religious Directives for Catholic Healthcare Services, but students will also be free to discuss their own moral views in discussion forums and projects.  This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# C++ Programming

- RECOMMENDED FOR:  Sophomores, Juniors, and Seniors
- COURSE LISTING: Computer Science
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

This course will introduce students to computer programming using C++ programming language. C++ is a programming language used in many applications, across different industries. Through this course, students will learn the basic syntax necessary to write a computer program and how to attack a problem using the proper planning techniques. Students will learn about control structures, loops, procedures, arrays and much more. Another important aspect of this course is learning how to collaborate with other students. Each student will be put in groups and work together to meet the objectives of the module. Collaborating with other students is essential to the success of students in this course, as well as a much-needed life skill. There is a required synchronous meeting that will take place during one evening or weekend day per week. Meeting times will be determined at the start of each term.

# Catholic Authors

- RECOMMENDED FOR:  Sophomores, Juniors, and Seniors
- COURSE LISTING: Theology and English
- APPROXIMATE RESOURCES COST: $20

The Roman Catholic Church is richly blessed with many wonderful authors who write passionately and compellingly about our faith. How many do you know? Augustine, Aquinas, Belloc, Chesterton, Dante, Day, Endo, Finnis, Greene, L'engle, Merton, O'Connor, Percy, Tolkien, and so many more. This course explores several diverse Catholic authors and their works and ideas, hones students' critical reading and interpretative skills, and brings students together from Catholic schools around North America to explore our Catholic faith through our rich literary heritage. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Comic Book Fiction

- RECOMMENDED FOR:  Seniors
- COURSE LISTING: English & Communications
- PREREQUISITES: English III
- APPROXIMATE RESOURCES COST: $70

Literature is paradoxical by nature: attempting to hold a critical mirror up to the very society that produced it and of which it is part. It requires skill to uncover what authors want to say, what they do say, and, critically, what they don't say. Comic books are no different. Despite being marginalized by traditional literary circles, comic books feature the same literary techniques and devices as canonized literature and therefore offer an accessible entryway into literary analysis. In this course, you will learn and/or sharpen reading, writing, and analytical skills while reading some of the most lauded comic book titles like X-Men, Spiderman, and Batman among others on an epic literary journey. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week, as well as on demand, by appointment.

# Computer Game Development

- RECOMMENDED FOR: Sophomores, Juniors, and Seniors
- COURSE LISTING: Computer Education, Technology
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

In this course, students will explore the variety of technologies and art forms that go into game design and development. Video games are the biggest entertainment industry in the world. They are also multimedia experiences that incorporate storytelling, music, art, and technology.  This course examines the impact that games have on our society and exposes students to a wide variety of video games and genres, while teaching students to create their own video games and think critically about the games that they play.  Students will learn to use a basic game engine to bring their video game ideas to life.  Some previous experience in computer science is helpful but not required. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. One-on-one synchronous teacher drop-in support time is offered each week for students, as well as on demand, by appointment.

# Genocide & the Holocaust

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $0 (Resources provided)

This course looks at both the academic and social constructions of genocide. We will view the Holocaust as the paradigmatic example of, but not only, genocide in modern history. Students will study the causes and processes of genocide as well as other contemporary crimes against humanity. Students and parents should be advised that this course utilizes intense and disturbing materials. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Introduction to Anatomy & Physiology

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Science
- PREREQUISITES: Biology and Chemistry
- APPROXIMATE RESOURCES COST: $55

Introduction to Anatomy & Physiology provides an overview of the basic systems in the human body and will focus on the structure and function of these systems and discuss how they work both independently and collectively with each other. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Introduction to Design Thinking

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $50

Students will explore real-world problems through stages of a tested design process that focuses largely on the human experience. How do we relate and continue to adapt to the world around us? Topics may include visualization, mapping, storytelling, prototyping and testing. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Introduction to Veterinary Careers

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Science
- APPROXIMATE RESOURCES COST: $0 (Resources Provided)

In this course students will investigate the vast field of veterinary medicine, from entering the field to living and growing within it. They will explore educational and licensing requirements, the varied jobs within the profession, and the reality of everyday life in the veterinary field. The class will emphasize personal discovery of an individual's options for education and careers as well as considering their own strengths, weaknesses, and interests as they relate to veterinary careers. Finally, students will consider social and ethical challenges they may encounter to help them discern if veterinary medicine is right for them. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. An optional synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Medical Terminology & Career Exploration

- RECOMMENDED FOR: Juniors and Seniors
- COURSE LISTING: Science
- APPROXIMATE RESOURCES COST: $50

Medical terminology is a specialized language used by healthcare practitioners and, just like a foreign language, it has its own vocabulary and ways of stringing together words. This course combines an introduction to fundamentals of medical terminology and terms associated with the various bodily systems with the opportunity for students to learn more about professions throughout the medical field.

# Model United Nations/International Relations

- RECOMMENDED FOR:  Juniors and Seniors
- COURSE LISTING: Social Studies
- APPROXIMATE RESOURCES COST: $25

Model United Nations is an educational simulation and academic competition in which students learn about diplomacy, international relations, and the United Nations. International Relations is an academic course designed to examine the behavior of nations and states both individually and collectively. When you combine using the Model UN platform to examine the state of International Relations today, you have an interesting and fun way to enhance both your perception of global issues and your position as a citizen of your country and the global community. This is not a course that will drown itself in theory. Rather, it is designed to offer opportunities for students to study modern global issues, and the positions and interactions of nations and states, through research, simulations, discussion, and written assignments.

Students are assigned a country at the beginning of the semester and represent that country during simulations, constructing position papers, resolutions, and amendments. Seminars encourage students to participate in online discussion to resolve, or perhaps merely to understand better, an issue. As committee work is such a vital part of the course, significant online interaction via email, video conferencing, or texting is a must for success. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.

# Statistics & Probability Foundations

- RECOMMENDED FOR:  Sophomores, Juniors, and Seniors
- COURSE LISTING: Mathematics
- PREREQUISITES: Algebra I
- APPROXIMATE RESOURCES COST: $90

The purpose of this course is to learn the foundational concepts and tools of descriptive and inferential statistical reasoning in a fun way. This is an introductory, non-AP course, that covers most of the concepts in an introductory statistics course by working with data from all over across many fields of study. In our data-saturated world, people must be able to ask thoughtful questions, properly analyze data, and, most importantly, use critical thinking skills to draw appropriate conclusions and recognize inappropriate conclusions made by others. This course requires weekly engagement but is primarily asynchronous which allows students to work around their school schedule. A required synchronous meeting takes place one evening per week. Meeting times will be determined at the start of each term.