



# KENT SCHOOL

COURSE CATALOG 2021-2022

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## GRADUATION REQUIREMENTS

To receive a diploma, a student must meet both the credit and the course requirements for graduation. Kent does not award credit for work done at other schools. The number of credits required for the diploma varies according to the year a student enters Kent:

<u>Entering Form</u>	<u>Credits Required</u>
Third	18
Fourth	13
Fifth	9
Sixth	4

The annual course load for students is five major courses, though students can request to take six. Each major year-long course counts as 1 credit. Each major term-contained course counts as 1/3 credit. Each minor term-contained course counts as 1/6 credit.

The required courses for which a student must earn credit are:

- English: year-long courses each year
- Modern or Classical Language: through the Kent third-year level
- Mathematics: Geometry and Algebra 2 plus enrollment in math through the fifth-form year
- Science: a minimum of 2 year-long laboratory sciences
- History: a minimum of two years, one of which must be U.S. History in either the fifth or sixth form year
- Theology: Introduction to Religion and Culture, a major, term-contained course taken in the fifth- or sixth-form year
- Music: one major term-contained course, one year of weekly music lessons, or one year of weekly participation in an ensemble
- Art: one major, term-contained course from among a choice of five classes. Students entering as 6th formers or PGs may take one term-contained course in any discipline.

New Student Seminar is a required minor term-contained course for all students entering Kent in the third or fourth-form year.

All third-form and fourth-form students take a minor year-long course in Community Life.

## COURSE SELECTION

In preparation for a student's first year at Kent, the Director of Studies reviews admissions files, placement tests and other materials and consults with new students and their parents to develop a plan of courses for each student.

During orientation, before the first day of classes, new students review their proposed course schedules with faculty advisors.

In the spring of each year, courses are chosen for the following year with the advisor's counsel and reviewed with the Director of Studies. Parents are informed of the selections and their questions and comments are invited.

Requests for placement review may be made at any time. Placement review is typically collaborative and involves the student, parents, advisor and department head. Final program authority rests with the Director of Studies.

## MAJOR INDEPENDENT STUDY

A 5th or 6th form student interested in an original project or course of study not regularly offered by the School may apply to pursue a major independent study. Major independent studies are graded, for-credit programs conducted under the sponsorship of a faculty member with the approval of the Director of Studies and the Independent Study Committee. In recent years, many students have completed major independent studies. Topics have included multivariate calculus and its applications to physics, the interpretation of dreams, Etruscan funerary urns, fashion design, and conversational Russian. Applications for major independent study require a faculty sponsor, must be approved by the Director of Studies before the start of the term of intended study, and are granted on merit.

## COURSES AT A GLANCE

† Indicates a term-contained major course

‡ Indicates a term-contained minor course

◇ Indicates a lab science course

### **ART**

Introduction to Studio Art †

Advanced Studies in Studio Art

Architecture †

Art History 1, 2, and 3 †

Ceramics †

Digital Imaging †

Drawing †

Film Photography †

Introduction to Fashion Design †

Oil Painting †

Sculpture †

### **CLASSICAL STUDIES**

Classical Civilization

Greek 1

Greek 2

Greek 301, 302, 303 †

Greek 401, 402, 403 †

Latin 1

Latin 2

Latin 3

Advanced Studies in Latin: Virgil and Caesar

Latin 4: Petronius (f)

Latin 4: Medieval and Ecclesiastical Latin (w)

Latin 4: Latin Epic Poetry (s)

### **ENGLISH**

English 1/English 1 Honors

English 2/English 2 Honors

English 3/English 3 Honors

English 4

Advanced Studies in English Literature

ESL Language  
ESL Literature

## **HISTORY**

Ancient and Medieval World History  
Honors Ancient and Medieval World History  
Modern European History  
Advanced Studies in Modern European History  
United States History  
Advanced Studies in United States History  
Advanced Studies in Economics  
Advanced Studies in United States Government and Politics  
American Economic Crises †  
Black American Studies I †  
Black American Studies II †  
China: From Mao to the Present †  
Constitutional Law: Civil Rights and the Supreme Court †  
Contemporary Issues in the Middle East †  
Global Financial Systems †  
Introduction to International Relations †  
Investments †  
Latin American History †  
Rome: Republic to Empire †  
Soviet Communism †  
U.S. Women's History †  
World War II †

## **MATHEMATICS**

Algebra 1  
Geometry/Honors Geometry  
Algebra 2 & Trigonometry/Honors Algebra 2 & Trigonometry  
Accelerated Algebra 2 & Trigonometry  
Precalculus with Statistics/Honors Precalculus with Statistics  
Precalculus with Statistics 1, 2 †  
Introduction to Calculus/Honors Introduction to Calculus  
Introduction to Calculus 1, 2 †  
Accelerated Introduction to Calculus  
Calculus  
Advanced Studies in Calculus AB

Advanced Studies in Calculus BC  
Post Calculus 1, 2, 3 †  
Advanced Studies in Statistics  
Marketing for an Inclusive World †  
Equity and Opportunity in Entrepreneurship †  
Advanced Studies in Computer Science Principles  
Computer Science Principles 1, 2 †  
Advanced Studies in Computer Science A  
Engineering Design †  
Structures: Design and Testing †  
Manufacturing Engineering †

### **MODERN LANGUAGES**

Chinese: 1, 2, 3, and 4  
French 1/Honors French 1  
French 2/Honors French 2  
French 3/Honors French 3  
French 4: Conversation †  
Advanced Studies in French Language  
Advanced French Literature †  
Spanish 1/Honors Spanish 1  
Spanish 2/Honors Spanish 2  
Spanish 3/Honors Spanish 3  
Spanish 4: Conversation †  
Advanced Studies in Spanish Language  
Advanced Spanish Literature †  
Russian Language and Culture  
Italian Language and Culture

### **MUSIC**

Music History and Appreciation †  
Music Theory 1, 2, 3 †  
Perspectives in Jazz †  
The Blues: A Musical Journey †  
An Exploration of Rock-N-Roll †  
Applied Music Courses: Concert Band, Concert Choir and Orchestra  
Private Instrumental or Vocal Lessons  
Music Technology 1, 2, 3 †

## **RESEARCH & ACADEMIC SKILLS**

New Student Seminar 3rd Form and 4th Form ‡

## **SCIENCE**

Biology 1/Honors Biology 1 ◇

Advanced Studies in Biology ◇

Chemistry 1/Honors Chemistry 1/Accelerated Chemistry 1 ◇

Advanced Studies in Chemistry ◇

Physics 1/Honors Physics 1/Accelerated Physics 1 ◇

Advanced Studies in Physics ◇

Advanced Studies in Psychology

Advanced Studies in Environmental Science ◇

Ecology 1 † ◇

Marine Biology † ◇

Ecology 2 † ◇

Genetics †

Biotechnology † ◇

Human Anatomy †

Geology †

Pandemics †

History of Life on Earth †

Astronomy †

Meteorology †

## **THEOLOGY**

Introduction to Religion and Culture †

Psychology and Religion †

Dreams †

World Religions †

Philosophy †

## **NON-CREDIT COURSES**

Confirmation

Private Instrumental or Vocal Lessons



## DEPARTMENTS & COURSES

### **ART**

Art Department faculty aspire to stretch our students' creativity, support their inspiration, and assist them in enhancing their skills in a range of media. We seek to build interdisciplinary bridges for our students. Student artwork is exhibited throughout the campus to showcase our talented students, but also to stimulate dialogue between academic departments. Our students' work is exhibited in local and state competitions yearly, and often at the national level. All studio art courses are term-contained; therefore, a student may take three different courses in one year. Students may choose from five courses to satisfy the diploma requirement in studio art, including Introduction to Studio Art, Architecture, Ceramics, Introduction to Fashion Design, and Sculpture. Students planning to complete an Advanced Studies in Studio Art course need to take at least two terms to complete a cohesive portfolio. Each year several students also complete independent studies to follow their creative inspiration beyond the courses offered.

#### Introduction to Studio Art (fall, winter, spring) †

We have designed this course to introduce students to the basic tenets of visual art, including two-and three-dimensional studio projects, independent and collaborative work, and art history as an inspiration for studio assignments.

#### Advanced Studies in Studio Art

This course prepares students to create a cohesive portfolio by taking two terms of study in a discipline of their choosing, including Drawing, Painting, Photography, and 3-D design. This class would support students to complete the sustained investigation required by the College Board for Advanced Placement.

#### Architecture (fall, winter, spring) †

This is a course in which students seek experimental solutions representing, in three-dimensional models and two-dimensional drawings, the properties, and qualities of space. Projects include perspective drawing, design, scale plans, elevations, and models. This course also attempts to respond to the dynamic nature of contemporary architecture.

#### Art History 1: Aborigines to the Aegean (fall); Art History 2: Rome to Paris (winter); Art History 3: The Renaissance to Art Nouveau (spring) †

A student may choose to take one or more terms of art history.. Each course is term-contained; fall, prehistory period through Ancient Greece, winter, the Roman Empire through the Gothic period, spring, the Renaissance through the early 20th century. In addition to the Western Canon, we

investigate the art of several non-western cultures and geographical regions. If students want to take The College Board Advanced Placement exam, they must begin preparing during the summer in tandem with completing all three terms of Art History.

#### Ceramics (winter, spring) †

Ceramics focuses on the use of the potter's wheel but also involves some hand-building techniques. Students research several ceramicists, sketch their vessels, and gain the confidence to work with this ancient medium. Students work with a range of decoration methods, including slip, oxides, and high-fire glazes.

#### Digital Imaging (fall, winter) †

Digital Imaging teaches students how to use a digital camera and manipulate their files using the Adobe Creative Suite. Students explore digital imagery and digital capture while expanding their understanding of computer software. Since the computer has become an essential tool for designing and manipulating images, the process's instant results help increase the learning rate.

#### Drawing (fall, winter, spring) †

Students work with a variety of techniques and media to create portraits, still life, and landscapes. A range of conceptual and aesthetic challenges inherent in contemporary drawing or "work on paper" are considered. Representational skills are honed, but the artist's personal voice is encouraged.

#### Film Photography (fall, winter, spring) †

If a student is interested in photography, we recommend starting with film and a manual camera. Film is still relevant for fine art photography, and studying film first will improve a student's digital images. Some students choose to work analog through the Advanced level, but others transition into digital images after completing one term.

#### Introduction to Fashion Design (fall, spring) †

Students learn to sketch their designs and transform basic patterns to construct a garment. Selecting and cutting fabric in tandem with the use of the sewing machine is accomplished in one term. Students explore various historical periods and contemporary fashion to inspire their work and consider the difference between appropriation and appreciation in their influences.

#### Oil Painting (fall, winter, spring) †

This class probes the techniques and materials of oil painting within the context of still life, portraiture, and landscape. The students also explore color as a means of artistic expression, and they are encouraged to complete oil sketches to stimulate their creative process. Topics include color

theory, design issues with color, developing ideas for painting, abstraction, and contemporary painting approaches.

Sculpture (winter, spring) †

This course addresses the inclusive nature of contemporary sculpture and 3-D design. Students explore traditional and innovative materials and techniques, and topics vary each term and have included: portraiture, site-based installation, modular constructions, relief, and mobiles. Students research various artists and cultures to inspire their creative process and to sketch and document their ideas.

## **CLASSICAL STUDIES**

Classical Studies at Kent are designed to introduce students to the languages, cultures, and literatures of the Greek and Roman worlds. Students may study either Greek or Latin through the third-year level to fulfill their Kent School language requirement. Latin is not, because it was not, a prerequisite for the study of Greek, and some students choose to take courses in both languages, or study one in combination with a modern language. Advanced and elective classes in both languages offer students the opportunity to read works of ancient literature in the original language, including poetry, drama, mythology, and philosophy. Classes are taught with a focus on developing reading knowledge and communication skills. A course on classical civilization and culture is also offered.

Classical Civilization

Classical Civilization is a year-long, discussion-based course on the Greek and Roman worlds and their continuing influence. Topics and readings may be drawn from classical history, mythology, and philosophy, with frequent digressions into art, astronomy, arithmetic, biography, cosmology, geology, geography, geometry, historiography, grammar, logic, rhetoric, music, philology, prehistory, the Middle Ages, and the modern world. *Open to fourth, fifth, and sixth formers.*

Greek 1

This course for beginners introduces the language and culture of the Greek world from the time of Homer to the present day. Students will learn to read and write the Greek alphabet and become conversant with the themes of Greek literature and history through stories and dialogues. In addition to reading simple narratives from classical mythology and the Greek Bible, we will study vocabulary and concepts pertaining to mathematics, science, and philosophy and their origins in Greek thought. Students will also be introduced to basic Modern Greek vocabulary and conversational phrases.

Greek 2

This course provides a comprehensive foundation and review in Attic Greek, the dialect of fifth-century Athens. The primary narrative follows an Athenian farmer and his family, supplemented

by selections from lyric poetry and the New Testament. This course may serve as an accelerated introduction to Greek for students who have demonstrated proficiency in Latin or another foreign language. *Prerequisite: Greek 1 or departmental permission.*

#### Greek 3 (fall, winter, spring) †

The term-contained courses of Greek 3 introduce students to advanced readings from original Greek literature, while continuing the study of grammar, vocabulary, dialect, literary devices, and meter. Readings most commonly include selections from Homer's Iliad and Odyssey or the Cyclops of Euripides. *Prerequisite: Greek 2 or departmental approval.*

#### Greek 4 (fall, winter, spring) †

The term-contained courses of Greek 4 continue the study of original literature. Readings may be chosen from the dialogues of Plato, the Histories of Herodotus, the Elements of Euclid, Greek comedy or tragedy, or the Greek Bible. *Prerequisite: Greek 3 or departmental approval.*

#### Latin 1

This introductory Latin course introduces the student to the language and culture of the Roman world. In preparation for reading the classical authors, Latin is approached as a practical means of communication through reading, writing, and basic conversation. Special attention is also given to the acquisition of vocabulary through an engaging narrative that follows a Roman family and their daily life. Students are also introduced to the fundamentals of Latin grammar and the etymology of English words derived from Latin, as well as the relationship of Latin to the Romance languages.

#### Latin 2/Honors Latin 2

This course serves as a continuation of Latin 1 or an entry point for students with sufficient previous Latin experience. With reading comprehension as the primary goal, students continue to expand their study of formal grammar and syntax. Stories and fables within the narrative provide opportunities for discussion of cultural and historical context. *Prerequisite: Latin 1 or departmental approval.*

#### Latin 3/Honors Latin 3

Latin 3 begins with a thorough review of grammar and vocabulary. By the end of the fall term, the course focuses on the reading of advanced Latin prose. The winter term features the reading of heroic legends in Latin and a thorough study of Greek and Roman myths by way of Edith Hamilton's Mythology. The goal of this course is to prepare students for selected readings from a Roman author during the spring term. At the honors level, students complete an accelerated review of grammar and vocabulary in the fall term and read selections from Cicero and Vergil in the winter and spring terms, with a focus on the Roman Republic and an introduction to Latin poetry and mythology. *Prerequisite: Latin 2 or departmental approval.*

#### Advanced Studies in Latin: Vergil and Caesar

The Advanced Studies in Latin course offers students the opportunity to read, analyze and gain an appreciation for Golden Age Latin poetry and prose through the works of Vergil's Aeneid and Caesar's Commentarii de Bello Gallico. Latin readings include (but are not limited to) selections from Books 1, 2, 4 and 6 of the Aeneid and Books 1, 4, 5 and 6 of Commentarii de Bello Gallico. Additional readings in English of both works are required, with a view toward recognition of themes, central characters and key ideas. Period tests will require students to translate familiar and unfamiliar passages as literally as possible, identify passages in context and analyze and comment upon content with respect to style, rhetorical aspects and theme. This course will also prepare students to take the Advanced Placement Latin Examination if they so choose. *Prerequisite: Honors Latin 3 or departmental approval.*

#### Latin 4: Petronius (fall) †

This course examines Roman life during the reign of the emperor Nero through a comprehensive study of Petronian satire. Students read selections from the *Cena Trimalchionis* and gain a view of the first-century Roman world along with insights into conversational Latin, social changes and how the prosperity of the empire led to displays of very conspicuous consumption—all contained within a Roman “novel” written during the Silver Age of Latin literature. *Prerequisite: Latin 3.*

#### Latin 4: Medieval and Ecclesiastical Latin (winter) †

Medieval and Ecclesiastical Latin examines sacred and secular Latin texts from the Middle Ages, when Latin was a living language of scholarship and communication. Texts studied may include selections from the Latin Vulgate, the Colloquy of Aelfric in Latin and Old English, legends of saints and travelers, and the Roman Missal. Attention is given to the art and technique of medieval illuminated manuscripts and to musical settings of the Mass by Palestrina, Bach, Mozart, and other composers. *Prerequisite: Latin 3.*

#### Latin 4: Latin Epic Poetry (spring) †

Following an overview of Homer's *Iliad* and *Odyssey*, students explore Vergil's Aeneid and Book VIII, in particular, to gain an understanding of how Vergil's literary epic fits into the patterns established by Homer. Students translate selections from Book VIII and become familiar with scansion, rhetorical devices and imagery, paying close attention to the author's unique style and thematic content that influenced writers and other artists in the years to come. *Prerequisite: Latin 3.*

## ENGLISH

English is a required subject in each year of a student's career at Kent. The English Department has two primary aims, which depend upon and support one another. One, we want students to become

avid, perceptive readers. To that end, we teach the means of understanding a range of texts from several different genres, both contemporary and classic, so that students might be “conscious...of what is already living” (T.S. Eliot). Through reading a diverse variety of texts, we aim to provide students with reading experiences that help them see themselves, others, and their world with greater complexity and clarity. Two, and of equal importance, we challenge students to express themselves with grace and clarity in many settings, including during class discussions. The critical essay is the main focus of writing instruction, but we also emphasize expression in personal narratives, fiction, and poetry. Advanced and honors sections expect you to have already developed critical perceptiveness and a graceful prose style. They are for those students who readily see the connections between a text’s form and content. The English department reviews the placement of every student at the end of every year to make sure each is in the right course, so some move into honors sections, and some out.

### English 1/Honors English 1

English 1 invites students to develop their reading and writing skills in a collaborative classroom environment. By reading and discussing works of various genres (Macbeth and The Odyssey, along with a variety of poetry, plays, novels, short stories, and essays), students develop analytical abilities essential to their careers at Kent and beyond. Through both critical and creative written responses, as well as instruction in grammar and mechanics, students learn to share their ideas in writing that is effective, persuasive, and engaging. *Prerequisite: departmental approval for enrollment in Honors level.*

### English 2/Honors English 2

By carefully analyzing works of British Literature (including Othello, Paradise Lost, and Frankenstein, as well as Romantic, Victorian, and modern poetry), English 2 students discover what literature reveals about our humanity and the contemporary age. Through both critical and creative written responses, as well as continued instruction in grammar and mechanics, students learn to share their own ideas in writing that is effective, persuasive, and engaging. *Prerequisite: departmental approval for enrollment in Honors level.*

### English 3/Honors English 3

English 3 students read a variety of American literature (including The Underground Railroad, The Things They Carried, The Great Gatsby and a selection of narratives, short fiction, plays, essays, and poems) in order to develop a broad understanding of American voices and perspectives. Through both critical and creative responses, English 3 students will build upon the skills developed in earlier classes to express their ideas in writing that is effective, persuasive, and engaging. *Prerequisite: departmental approval for enrollment in Honors level.*

### Advanced Studies in English Literature

Advanced Studies in English Literature is an advanced course in both critical analysis and style. Students read a wide range of literature, including Greek, Shakespearean, and modern drama, novels, essays, and poetry, and write frequent essays in multiple formats analyzing those texts. Students will be prepared for and have the option of taking the Advanced Placement English Literature and Composition exam. *Prerequisite: departmental approval.*

#### English 4

All sixth formers not enrolled in Advanced Studies in English Literature (described above) begin the year with a fall term course that encourages students to develop their own authentic written voice. Using successful college essays from past Kent seniors and a variety of other narrative and personal essays as mentor texts, students workshop and revise their own personal and college essays. Students will then read a variety of texts to examine how different authors, from Shakespeare to Trevor Noah, have addressed the development of identity and the human desire to understand the self in relationship to the world and others. In the winter and spring terms, English 4 students can choose from a variety of elective courses (open also to Advanced Studies in English Literature students). The English 4 electives vary from term to term.

#### ESL Language

Students are placed in this course following review of relevant testing (including TOEFL). The two levels of ESL Language stress the acquisition of academic language skills through reading, writing, listening, and speaking.

#### ESL Literature

Students are placed in this course following review of relevant testing (including TOEFL). The two levels of ESL Literature provide an introduction to works of British and American literature. In these courses, students become familiar with the basic elements of critical analysis through readings of, and written response to, novels, short stories, poetry, essays, and plays.

### **HISTORY**

History is the record of a nation or a community's heritage and environment and the development of political, social, and economic institutions. The History program at Kent explores epochs in which extraordinary activity and intellectual ferment created spirit, enterprise, and advancement in human development. The History Department encourages a healthy skepticism by stressing the many sides of each historical question. The History Department teaches students to extract the significant information from readings in primary and secondary sources and to synthesize data into meaningful hypotheses from which they can express ideas clearly in discussion, examination, and extended

research. The term-contained History electives below are generally taken in the 5th or 6th form unless otherwise indicated.

#### Ancient and Medieval World History / Honors Ancient and Medieval World History

Designed for new 3rd and 4th formers, Ancient and Medieval World History introduces students to the major societies of the Ancient and Medieval world. Examine the economic, social, political, and cultural history of these major societies while exploring their lasting influence on us today. The course provides a sound background for future history courses, especially Modern European History and Advanced Studies in Modern European History. *Prerequisite: departmental approval for enrollment in Honors level.*

#### Modern European History

The study of the changing political, cultural, economic, intellectual and societal landscapes of “Europe” beginning with the Renaissance. Students are exposed to concepts such as the nature of religion, power, nationalism, mass movements, republicanism, Marxism, propaganda, and the origins and consequences of a totalitarian state, etc.. In addition, students will develop their ability and confidence to use historical evidence in their essay writing.

#### Advanced Studies in Modern European History

Advanced Studies in Modern European History is designed to stimulate and challenge 4th, 5th, and 6th form students to improve analytical skills by demonstrating that history is a series of interpretations as well as the study of the ongoing relationship between cause and effect. The course considers political, economic, military, intellectual, and cultural developments in Europe beginning with the Renaissance. Students learn to think about history, what it is, what it means, and why events happen. In addition, the course prepares students for the AP exam should they choose to take it. *Prerequisite: departmental approval.*

#### United States History

United States History is a required course and may be taken in the 5th or 6th form year. In the fall, the course considers revolutionary principles and the establishment of the republic, emphasizing the principles of Hamiltonian, Jeffersonian, and Jacksonian democracy. It also examines manifest destiny, slavery, and states’ rights. The course progresses to examine four distinct domestic epochs: the Civil War and Reconstruction, the Gilded Age and Populism, Progressivism, and World War I. Readings focus on domestic and foreign policy during these periods. The course culminates with analysis of the shaping and conduct of domestic and foreign policy focuses on the 1920s and the beginning of the Great Depression, the New Deal, the Cold War Years, the liberal reform decades of the 1960s and 1970s and the conservative retrenchment of the 1980s and 1990s. Specific emphasis is placed on themes such as government regulation of the economy, the evolution of American foreign policy, the



expansion of civil rights and histories of inequity, and challenges to dominate historic narratives and the inclusion of a diversity of voices.

#### Advanced Studies in United States History

Advanced Studies in United States History is a year-long course which focuses on selected individuals and groups, their ideas, and the political, social, and economic effects of their thinking. The course is intended to develop skill in the use of evidence and in writing essays as a means of analyzing the American past. The course uses a combination of primary and secondary sources to prompt the critical analysis of historiography and inclusion of diverse narratives. The course prepares students to sit for the AP exam. *Prerequisite: departmental approval.*

#### Advanced Studies in Economics

Advanced Studies in Economics examines the principles of both micro and macroeconomics. The goal of the course is to achieve a working knowledge of the problems and issues in the economy of the United States, including issues of inequity and access. Among the concepts covered are: the ways in which land, labor, and capital (the factors of production) contribute to the growth and operation of a market economy, the ways in which supply and demand affect price and output levels of goods, the ways in which government policies alter the working of the market, and how international factors influence a nation's domestic economic conditions. All students in the course may take the AP exams in Micro and Macroeconomics. *Prerequisite: departmental approval.*

#### Advanced Studies in United States Government and Politics

Offered to 5th and 6th formers who have met their United States History requirement, Advanced Studies in U.S. Government and Politics is a year-long study of varied themes such as constitutional history, political beliefs, political parties, interest groups, governmental institutions, public policy, civil rights and civil liberties. The course provides a detailed examination of the political landscape of the United States, asks questions about how equity and access continue to challenge our founding father's goals, and prepares students for government and political science coursework in college. Students may choose to take the AP exam. *Prerequisite: departmental approval.*

#### American Economic Crises (fall) †

This course is an examination of 20th and 21st century financial crises in the United States. We begin with basic macroeconomic principles, and will proceed through case studies of major crises, such as the Great Depression, the financial crisis of 2008, and the coronavirus recession. Throughout we will emphasize data analysis, lessons learned, and how these crises disproportionately affected the most vulnerable people far from Wall Street. *Prerequisite: open to students in the 5th and 6th forms.*

#### Black American Studies I (winter) †

This course will examine and analyze Black American society and culture as it has developed from its roots in West Africa to the Great Migration and World War I. Primary emphasis will be on the West African cultures from which most enslaved Africans were taken; the American colonial experience and the origins of slavery in the 17th and 18th centuries; the pre-Civil War culture of free black Americans; the development of slave culture, religion and resistance; the era of Reconstruction; the different programs proposed by Booker T. Washington and W.E.B. DuBois; and the electric effects of the Great Migration and World War I on the black American community. *Prerequisite: open to students in the 5th and 6th forms.*

#### Black American Studies II (spring) †

This course will examine and analyze Black American society and culture as it has developed from World War I to its present-day themes and issues. Primary emphasis will be on the buildings towards mass movement between the World Wars; the beginnings of the Freedom Movement in the post-war 1950s; the high tide of the Freedom Movement in the 1960s; the development of the Black Power movement; the resistance to racial equity and justice during the Nixon, Reagan, Bush, and Clinton administrations; and an examination of more recent tides, including the rise of Black Lives Matter. *Prerequisite: open to students in the 5th and 6th forms.*

#### China: From Mao To the Present (fall) †

This course is a term-contained introduction to major themes and trends from early Chinese history as they relate to the events of the late nineteenth and twentieth centuries. The course of study includes the origin and development of Chinese philosophy, the legacy of authoritarian rule in the Ming and Qing dynasties, the impact of foreign domination, the origin and development of the civil war between Chiang Kai-Shek and Mao Tse Tung, Japan's ruthless occupation in WWII, Mao's cultural revolution and Great Leap Forward, and China's evolution into a world economic power. *Prerequisite: open to students in the 5th and 6th forms.*

#### Contemporary Issues in the Middle East (spring) †

The Middle East frequents news headlines and Hollywood billboards as its internal dynamics and foreign policy decisions attract the attention of the world. How much do we actually know, and can we really appreciate this culturally rich and diverse region of the globe? Contemporary Issues in the Middle East examines some of the highly debated current issues in the Middle East. Looking at modern history through academic texts and the media, this course introduces students to major political, social, and cultural issues in the region through the study of both its history and historiography. *Prerequisite: open to students in the 5th and 6th forms.*

#### Latin American History (fall) †

Latin American History will look at the region from the colonial period to the present day. We will focus on the 19th and 20th centuries from the creation of new nations to their movement into the modern world. The region is vital to our understanding of the modern world and as our direct neighbor to the south the connections between the USA and Latin America will be explored. We will look at the region through political, social, and economic means. Intrinsic to our study will be the many different voices that have played a role in shaping the region. *Prerequisite: Open to members of the 5th and 6th forms; 4th formers can enroll upon completion of Ancient and Medieval History or with departmental approval.*

Constitutional Law: Civil Rights And The Supreme Court (winter) †

This course focuses on the evolving importance of the United States Constitution and the Supreme Court in delineating the civil rights of minority groups and protected classes in America and in developing a more egalitarian, integrated society. Students will research, prepare legal briefs and consider current Supreme Court cases. Readings will be drawn from case law and related materials. *Prerequisite: completion of United States History or departmental approval.*

Investments (winter) †

Students are provided with a framework for making sound investment decisions. The course covers topics such as Financial Accounting, Equity and Equity Valuation, Fixed Income, Financial Derivatives, and Efficient Market Theory. Students are exposed to financial language and concepts and are provided with a foundation for students to grow their money through investing. *Prerequisite: open to students in the 5th and 6th forms.*

Rome: Republic To Empire (winter) †

This course will provide an in-depth look at the transformation of Republican Rome to Imperial Rome. Starting with a look at the structure of the Roman Republic, we will then jump forward to look at Rome's conflict with Carthage and the impact Rome's expansion had on the Republic. Our study of this period will rely heavily on reading translations of primary source material. We will use Polybius, Cicero, and others as our main textual guides, but will also look at what material culture can provide. In addition, we will look at the rich scholarly debate on this period and how this period is relevant in our modern lives. *Prerequisite: open to students in the 5th and 6th forms; 4th formers can enroll upon completion of Ancient and Medieval History or with departmental approval.*

Soviet Communism (winter) †

Emphasis is placed on the theories of Karl Marx and V.I. Lenin and their implications for classless societies in the 20th century. Soviet Communism examines why communism succeeded in Russia, how it was practiced globally and why it ultimately failed. Among texts discussed are Marx, *The*

*Communist Manifesto*; Koestler, *Darkness at Noon*; Pipes, *Communism: A History* and Figs, *The Whisperers*.  
*Prerequisite: open to students in the 5th and 6th forms.*

#### Global Financial Systems (spring) †

This course will examine and demystify the institutions behind what you see as “Wall Street.” We will take down the wall around “high finance” brick by brick to get a microscopic view of Investment Banks, Hedge Funds, and Private Equity. Students will be able to analyze how these three groups interact with each other, as well as how they interact with sovereign governments, corporations, institutional investors, and individual investors. Topics include the 2008 Financial Crisis, IPO issuance, Mergers and Acquisitions, Hedge Funds, and Private Equity. *Prerequisite: open to students in the 5th and 6th forms.*

#### Introduction to International Relations (spring) †

Introduction to International Relations is designed to integrate students’ knowledge of current events into their historic context and situate this understanding of global affairs within a body of International Relations theory. Through the study of international organizations, students develop their own analyses of events with the realities of how these events are perceived, reacted to and addressed in the international arena. Using research, papers, and presentations, debate, simulations, analysis of news sources and global media, and international relations theory, this course challenges students to step outside themselves and understand the difficult choices world leaders make while forging their own ideas about how to build a better world. *Prerequisite: open to students in the 5th and 6th forms.*

#### U.S. Women’s History (spring) †

The untold story in U.S. History is the story of women. From Anne Hutchinson to Progressive Era Reformers to the feminists of the 1960’s, American resiliency and heroism has been embodied by women - and too often without proper recollection. Through the study of key women and social-political movements throughout American history, this course strives to introduce students to the pivotal roles that women have played in American history and better shaped their context for the state of women’s affairs today. *Prerequisite: completion or concurrent study of United States History.*

#### World War II (spring) †

World War II was the largest global conflict in world history. over 100 million personnel were involved. Approximately 50 to 70 million people died as a direct or indirect result of the war. The war marked three major turning points in history: genocide on an unprecedented scale, the use of nuclear weapons, and the triumph of democracy over fascism. The course offers a general survey of the war, an exploration of the motivations and strategies of the architects of the war (Hitler, Tojo, Roosevelt,

Stalin, Churchill et al.) as well as the experiences of ordinary people affected by it. *Prerequisite: open to students in the 5th and 6th forms.*

## **MATHEMATICS**

The Mathematics Department offers appropriate challenges to students from a wide range of backgrounds possessing a wide range of interests and skills. At all levels, we emphasize reading mathematics, solving problems, and communicating results. Graphing calculators and computer applications are often used in coursework. The minimum requirement for graduation is satisfactory completion of Geometry and Algebra 2 & Trigonometry, as well as mathematics through the 5th form year. Students are expected to work at a course level commensurate with their ability. *All course selections require approval of the Mathematics Department.*

### Algebra 1

This course presupposes a working knowledge of the skills necessary to begin algebra, along with a willingness to strengthen those skills while learning the fundamentals of algebra. Course content includes operations with algebraic expressions, linear equations and inequalities, polynomials, quadratic equations, and an introduction to the notion of functions.

### Geometry/Honors Geometry

Geometry aims to advance the ability to think logically and analytically. Properties of plane and solid geometric objects are discovered and verified or deduced. Students learn to supply formal proof of valid propositions and recognize invalid ones. Algebra skill development continues and coordinate geometry is introduced. Computer software aids discovery and visualization. Honors Geometry provides an intensive pace, greater depth, and greater breadth. *Prerequisite: Algebra I.*

### Algebra 2 & Trigonometry/Honors Algebra 2 & Trigonometry

Like Algebra I, this course stresses basic skills. Essential facts and techniques from Algebra I are reviewed and the student's command of skills is strengthened. Manipulation of algebraic expressions, equation solving, functions and their graphs, complex numbers, exponents, logarithms, trigonometry, radian measure, sequences and series, and probability are studied. Honors Algebra 2 & Trigonometry provides an intensive pace, greater depth, and greater breadth. *Prerequisite: Algebra I and Geometry.*

### Accelerated Algebra 2 & Trigonometry

Combining topics from Honors Algebra 2 & Trigonometry and Honors Precalculus with Statistics, this course prepares students for Accelerated Introduction to Calculus. It is a fast-paced, rigorous course that emphasizes intuitive understanding in addition to skill development. Non-routine problems are an integral part of the course. *Prerequisite: strong performance in Honors Geometry & Trigonometry.*

### Precalculus with Statistics / Honors Precalculus with Statistics

Precalculus with Statistics is a year-long course that extends algebra knowledge and problem-solving skills while introducing key topics from precalculus and statistics. Included are such subjects as measures of central tendency and dispersion, best-fit lines, the behavior of polynomial, exponential and logarithmic functions, complex numbers, and the binomial theorem. Honors Precalculus with Statistics provides an intensive pace, greater depth, and greater breadth. *Prerequisite: Algebra 2 & Trigonometry.*

### Precalculus with Statistics 1, 2 (fall, winter) †

The term-contained version of Precalculus with Statistics is offered only to the 6th form. Other students should see the description for the year-long Precalculus with Statistics above. *Open to members of the sixth-form only. Prerequisite: Algebra 2 & Trigonometry is the requisite for Precalculus while Precalculus 1 is the prerequisite for Precalculus 2.*

### Introduction to Calculus/Honors Introduction to Calculus

Aimed at providing solid preparation for a general calculus course, Introduction to Calculus stresses the behavioral characteristics of elementary functions and those derived from them by addition, multiplication, composition, and inverse. Much attention is paid to inferring, from the equations that define them, the attributes of graphs, such as symmetry, asymptotes, periodicity, continuity, and end-behavior. Calculus language and logic are introduced and the course is highlighted by an introduction to calculus topics. Honors Introduction to Calculus provides an intensive pace, greater depth, and greater breadth. *Prerequisite: Precalculus with Statistics.*

### Introduction to Calculus 1, 2 (fall, winter) †

The term-contained version of Introduction to Calculus is offered only to the 6th form for the fall and winter terms. Other students, including 6th formers who wish to take the course for the full year, should see the description for the year-long Introduction to Calculus above. *Prerequisite: Precalculus with Statistics is the prerequisite for Introduction to Calculus 1 while Introduction to Calculus 1 is the prerequisite for Introduction to Calculus 2.*

### Accelerated Introduction to Calculus

This course is a fast-paced, rigorous course that emphasizes intuitive understanding in addition to skill development. It includes topics from Honors Introduction to Calculus, as well as mathematical induction, De Moivre's theorem, polar coordinates, partial fractions, and an introduction to calculus topics. Non-routine problems are an integral part of the course. *Prerequisite: strong performance in Accelerated Algebra II & Trigonometry or Honors Precalculus with Statistics.*

## Calculus

Calculus includes topics such as limits, continuity, derivative, and mean value theorem. Students learn graphical, numerical, verbal, and modeling approaches to elementary functions. The emphasis is on the interplay between geometric and analytic information and on the use of calculus both to predict and to explain the observed local and global behavior of a function. The course covers the derivatives of all elementary functions as well as the rules for differentiating, products, quotients, and composite functions, and the concept of a differential equation. *Prerequisite: Introduction to Calculus.*

## Advanced Studies in Calculus AB

Differential and integral calculus are studied both intuitively and formally. Topics include the chain rule, the mean value theorem, Riemann sums, slope fields, and numerical methods for approximating derivatives and definite integrals. *Prerequisite: Honors Introduction to Calculus.*

## Advanced Studies in Calculus BC

Topics include those of Advanced Studies in Calculus AB, additional integration techniques, differential equations, polar and parametric equations, Taylor and MacLaurin series, and intervals of convergence. *Prerequisite: strong performance in Accelerated Introduction to Calculus.*

## Post-Calculus 1, 2, 3 (fall, winter, spring) †

These independent, term-contained courses survey substantive topics at a level commensurate with collegiate mathematics. Topics are selected with the backgrounds of the students in mind. Recent studies include multivariate calculus, statistics, linear algebra, number theory, and the mathematics of chaos. Investigations using specialized computer software are a common feature of the course. A student may take these courses more than once as topics vary year-to-year. *Prerequisite: completion of or concurrent enrollment in Advanced Studies in Calculus AB or BC.*

## Advanced Studies in Statistics

Features of the course are selection and analysis of data, developing probability models, and using statistical inference. Topics include regression and correlation, sample and experimental design, discrete and continuous random variables, normal, geometric and binomial distributions, significance testing, and the chi-square test. *Prerequisite: strong performance in Honors Precalculus with Statistics or Honors Introduction to Calculus.*

## Marketing for an Inclusive World †

The best products and services go unsold if marketers cannot communicate their value. Students will apply a multicultural approach to making business decisions based on the strategies and tactics of ethical and responsible marketing. Students will learn how best to meet the needs of global customers and think like an innovator through research and case studies. Historical examples will be used to

explore racism in marketing, stereotypes in images, and socio-economic targeting. The course will examine today's social, mobile, and digital customers with an emphasis on how to analyze, create, communicate, and capture value in a modern, inclusive world.

#### Equity and Opportunity in Entrepreneurship †

Entrepreneurship involves applying a wide variety of interdisciplinary skills to fill local and global needs in society. Students will learn how to start and scale a business through the lens of gender, race, and class privilege. Modern challenges in social entrepreneurship, including cultural, environmental, and community causes, will help students learn to solve problems like an entrepreneur. The skills needed by an entrepreneur can be taught to anyone and applied to everything around us; learn how entrepreneurship can make the world a better place.

#### Advanced Studies in Computer Science Principles

Technology is integral to all aspects of our lives. Students with the underlying skills will have a distinct advantage in whatever disciplines they choose to pursue if they have exposure to the fundamentals of computer science. Advanced Studies in Computer Science Principles is a broad introduction to computer science with a focus on creative development, data, algorithms and programming, computing systems and networks, and the societal impact of computing. It is a project-based course built around Android and iOS app development, discussion, and collaboration. Students may take the first units of the course as a fall term-contained elective (Computer Science Principles 1) and subsequently a second set of units as a winter term-contained elective (Computer Science Principles 2). No prior experience with computer science is required.

#### Computer Science Principles 1 †

See course description for Advanced Studies in Computer Science Principles, above.

#### Computer Science Principles 2 †

See course description for Advanced Studies in Computer Science Principles, above. Prerequisite: Computer Science Principles 1

#### Advanced Studies in Computer Science A

This course is an introduction to computer science with a focus on programming. It teaches algorithmic thinking and abstraction in order to solve a variety of problems. The course promotes creativity through a collaborative, project-based curriculum. Programs are written in Java with an emphasis on object-oriented design. No prior experience with computer science is required.

#### Engineering Design (fall) †



We live in a world surrounded by objects that have been intentionally conceived, designed, manufactured, and assembled. Engineering Design is an introduction to the principles and practice of design. It covers mechanical drawing and documentation, reverse engineering, design principles, and design presentation (in both two and three dimensions). This course embraces two aims: to give the student greater appreciation for and understanding of their designed world and to provide an introduction to the skills inherent in the conception, design, and manufacture of artifacts.

Structures: Design and Testing (winter) †

In this course, students build structures, test their strength, and see how physical and mathematical principles contribute to the structural strength of a design. Our analysis of design and of the performance of structures is from the point of view of materials science. It includes problems of form versus function and practical considerations of strength versus cost. *Prerequisite: Geometry and Algebra 2 & Trigonometry.*

Manufacturing Engineering (spring) †

Manufacturing Engineering introduces students to manufacturing science and engineering and prototype part production. It takes advantage of the prototyping capabilities provided by the School's 3D printing and CNC machining resources. The course focuses on the creation of products which may grow out of work done in the Engineering Design and Structures courses or real world examples. In addition, it seeks to answer several questions: Is the design too complex to manufacture? How can I improve on the design to increase manufacturability? What materials do I need to produce it? How do I produce it?

## **MODERN LANGUAGES**

The Modern Languages Department offers instruction in Chinese, French, and Spanish as well as elective courses in Italian Language and Culture and Russian Language and Culture, offered in alternating years. The goal in all classes is to develop the ability to understand the spoken tongue, to express oneself both orally and in writing, and to read with ever-increasing knowledge and understanding of the culture and civilization of the target language. All students are required to successfully complete at least through level 3 of a foreign language in order to receive a Kent diploma. The Mattoon Language Learning Center, with its 18 desktop computers and headsets, provides a learning environment to help students improve listening and speaking skills. An additional 12 MacBooks in a mobile cart allow even more access for in-class activities and assessments.

Chinese 1

Chinese 1 is a beginning course for students who have no previous knowledge of the language. The goal is to help students master the pronunciation system and tones, gain knowledge of the essential components of Chinese characters and develop basic speaking, listening, reading, and writing skills.

Mandarin Chinese is the spoken language, while the written language is based on simplified forms. In addition to linguistic knowledge, related Chinese culture and history are introduced.

#### Chinese 2

Chinese 2 continues and builds on the fundamentals learned in Chinese 1. This course is designed to develop students' grammar, sentence structure, and practical use of the Chinese language while enlarging students' vocabulary and related knowledge of the language. In addition to linguistic knowledge, development of the students' awareness of Chinese culture and history continues.

*Prerequisite: Chinese 1.*

#### Chinese 3

Chinese 3 continues and builds on the fundamentals learned in Chinese 2. This course further develops fluency and natural expression in spoken Chinese. Students distinguish formal written styles from conventional or spoken styles, while enriching vocabulary and related linguistic knowledge. In addition to the textbook, students at this level have gained enough knowledge of the language for selected readings in Chinese as well as furthering knowledge of Chinese culture and history.

*Prerequisite: Chinese 2.*

#### Chinese 4

Chinese 4 is an advanced course where students continue to develop reading and written skills while enhancing their spoken skills. Chinese culture, history, and social issues are part of class. The textbook is supplemented with additional selected readings. *Prerequisite: Chinese 3.*

#### French 1/Honors French 1

This course is designed for students with no previous study of French, as well as for those whose exposure to French is not sufficient to move directly to French 2. The course focuses on a basic introduction to listening, speaking, reading, and writing in French. Both text and videos are employed as instructional materials in the course. The French in Action immersive and textbook methods are the primary course materials for both French 1 and French 2.

#### French 2/Honors French 2

This course follows French 1, aiming to complete basic grammar and place greater emphasis on reading, writing, and vocabulary building. *Prerequisite: French 1.*

#### French 3/Honors French 3

French 3 is a review of all foundational grammar, and an expansion of vocabulary and cultural knowledge through short texts, films, and projects. Honors French 3 is conducted at a faster pace,

and is designed to prepare well-qualified students to continue on to Advanced Studies in French Language in the following year. *Prerequisite: French 2.*

#### French 4: Conversation (fall, winter, spring) †

These three advanced term-contained courses stress oral communication in French. Their primary objective is to prepare students to adequately communicate orally within several practical areas of interest. Throughout the course, colloquial usage of French and grammar review are stressed to enrich students' basic command of the French language. These courses are recommended for students who wish to continue the study of French beyond the third year, but not at the Advanced level. Enthusiastic class participation is essential, as the class focuses on student interaction.

#### Advanced Studies in French Language

This advanced course is designed for those students who wish to expand their command of French language and culture. Students develop language skills to the point at which they can clearly demonstrate the following: an understanding of both conventional language and extended discourse on a variety of topics; comprehension of challenging texts on a wide variety of subjects; ability to express ideas accurately, fluently, and coherently by reacting at some length both orally and in writing to what has been heard or read. Students enrolled in this course may sit for the AP exam in French Language and Culture. *Prerequisite: Honors French 3 and/or department approval.*

#### Advanced French Literature †

Advanced French Literature is a comprehensive approach to representative works in French literature and mastery of the techniques of literary analysis in all genres. Students read novels, plays, and poetry from French authors from different historical periods. Classes involve participation, oral presentations, and analytical essays. All reading, writing, and discussion are conducted in French. This course is offered at the option of the department. *Prerequisite: Advanced Studies in French Language or departmental approval.*

#### Spanish 1/Honors Spanish 1

This course is designed for students with no previous study of Spanish, as well as for those whose exposure to Spanish is not sufficient to move directly to Spanish 2. The course focuses on a basic introduction to listening, speaking, reading and writing in Spanish. Texts, videos, and on-line resources are employed as instructional resources in this course.

#### Spanish 2/Honors Spanish 2

Spanish 2 increases the emphasis on reading, vocabulary, and grammar. The conversational methods of the first year are broadened through extemporaneous speaking. The speed and scope of the reading are increased as students develop facility with the language. *Prerequisite: Spanish 1.*

### Spanish 3/Honors Spanish 3

Spanish 3 continues to develop speaking and listening skills and increases emphasis on written composition. Selected readings from the texts are discussed in Spanish and vocabulary expansion is stressed. It is expected that students will speak only Spanish in the classroom. In addition to textbooks, a variety of texts are employed to practice listening and reading comprehension. Honors Spanish 3 provides a faster pace and further enrichment to prepare students to continue with the Advanced Spanish course in the following year. *Prerequisite: Spanish 2.*

### Spanish 4: Conversation †

These term-contained courses stress oral communication in Spanish. Their primary objective is to prepare students to adequately communicate orally within several practical areas of interest. Throughout each course, colloquial usage of Spanish and grammar review are stressed to enrich students' basic command of the Spanish language. These courses are recommended for students who wish to continue the study of Spanish beyond the third year, but not at the Advanced level. Enthusiastic class participation is essential, as the class focuses on student interaction.

### Advanced Studies in Spanish Language

This advanced course stresses oral skills, composition, grammar, listening, and reading comprehension. Emphasizing the use of Spanish for active communication, the course has the following objectives: to develop the ability to comprehend formal and informal spoken Spanish, to increase vocabulary and understanding of the structures of Spanish to allow the easy, accurate reading of newspapers, magazine articles, and modern Hispanic literature, to facilitate the organization and writing of brief expository passages, and to develop the ability to express ideas orally with accuracy and fluency. Students taking this course may sit for the AP exam in Spanish Language and Culture. *Prerequisite: Honors Spanish 3 and/or departmental approval.*

### Advanced Spanish Literature †

The student is directed toward an appreciation of content and the perception of literary values, forms, and techniques. Aspects of Spanish civilization and culture are also studied. This course is offered at the option of the department. *Prerequisites: Advanced Studies in Spanish Language or departmental approval.*

### Russian Language and Culture

This year-long major course offers an introduction to basic Russian grammar, vocabulary and idioms. Screenings of films, oral presentations, and independent projects will help students gain an understanding of the development of modern Russian culture. *Prerequisite: for 5th and 6th form students who have fulfilled their language requirement in another language, or by approval of the Modern Languages*

*Department Chair. Russian Language and Culture will be offered in alternating years with Italian Language and Culture.*

### Italian Language and Culture

This year-long major course offers an introduction to Italian language and culture. Using a college-level textbook as well as games, projects, films, and other authentic materials, students will build skills in speaking, listening, reading and writing. *Prerequisite: for 5th and 6th form students who have fulfilled their language requirement in another language, or by approval of the Modern Languages Department Chair. Italian Language and Culture will be offered in alternating years with Russian Language and Culture.*

## **MUSIC**

There are many opportunities for students to be involved in the study, creation, and performance of music at Kent. All students are encouraged to participate in the music program's various offerings regardless of ability level or previous experience.

### Music History and Appreciation (fall, winter, spring) †

Foundational music concepts are studied and applied, as students gain a greater understanding of a variety of genres and compositions through active listening. Connections are explored between genres, historic eras and current music. Engaging, creative activities foster the appreciation of music as an expressive art form. This course satisfies Kent's graduation requirement in Music.

### Music Theory 1 (fall) †

Students learn the elemental concepts of music theory, including basic notation, intervals, scale structures, key signatures, triads, basic chord progressions, and the first stage of melodic & harmonic analysis. Music theory skills (sight singing, dictation & ear training) and composition basics are an integral part of this course.

### Music Theory 2 (winter) †

Melodic & harmonic analysis continues with the introduction of more intermediate concepts such as secondary triads. Students arrange music for small ensembles, gain knowledge about orchestral instruments, and begin full score reading & conducting. Music theory skills continue. *Prerequisite: Music Theory 1.*

### Music Theory 3 (spring) †

In this continuation of Theory 2, students are introduced to chromatic harmony, functional seventh chords, key modulation, and analysis of small forms. Music theory skills are further developed and students may elect to take the Advanced Placement Test in Music Theory. Student compositions are performed at the conclusion of the term. *Prerequisite: Music Theory 2.*

### Perspectives in Jazz (fall) †

The origins and development of jazz as a musical genre will be examined. From its African influenced roots to its modern-day amalgamation of styles, jazz as a means of musical expression will be researched and analyzed. Students will be exposed to the experience of listening to jazz in its various historical adaptations.

### The Blues: A Musical Journey (winter) †

The origins, evolution, and influence of the blues as a musical art form through its impact on American culture and society will be explored. The course will be based on lectures, listening examples, lyric readings and analysis, and associated references.

### An Exploration of Rock-N-Roll (spring) †

The history and evolution of rock music will be examined through analysis, cultural and historical alignment, listening, and its impact on society. The rock era will be divided into various periods and discussions of various influential musical artists and their work will be examined.

### Applied Music Courses (fall, winter, spring)

The Concert Band, Concert Choir, and Orchestra are graded, credit-earning ensembles. Three terms of dedicated involvement in any of these ensembles satisfies the music requirement for graduation. The Concert Band is comprised of students, faculty, and some community members. The Concert Band studies classic, modern, and “pops” literature and performs throughout the year. The Orchestra studies classical, modern, “pops,” and global literature, and performs throughout the year. The Concert Choir is a large, mixed choral ensemble open to all students. This larger choir gives newer singers a wonderful opportunity to learn about quality choral singing techniques. More seasoned singers will enjoy singing with a larger group, as well as the extensive, challenging and fun repertoire available for this size ensemble.

### Private Instrumental/Vocal Lessons

Lessons may be elected and are encouraged for all instrumental and vocal students, beginning through advanced. Once enrolled, students are scheduled for one lesson per week; however, more lessons may be scheduled if desired. Performance opportunities are provided and participation is encouraged. *There is a fee for private lessons.*

### Music Technology 1 (fall) ‡

An examination of the equipment and techniques used in live sound and studio recording applications. Topics include: Acoustics, Microphones, Mixers, Effects, Sound Production and

Reinforcement, and Ethical and Legal Issues. This course can apply toward the fulfillment of the Pre-Engineering Certificate.

#### Music Technology 2 (winter) ‡

This course serves as an introduction to the equipment and methods used in software-based music composition, arranging and multi-track recording. Students will create original musical projects. Topics include: Electronic Composition, Sound Production Techniques, Digital Audio Workstations, and MIDI. This course can apply toward the fulfillment of the Pre-Engineering Certificate. No prerequisite, however, Music Technology I or a music background is suggested.

#### Music Technology 3 (spring) ‡

This course is a continuation of Music Technology II including advanced recording and post-production techniques. In addition, music promotion and marketing methods will be examined. Topics include: Advanced Studio Production Techniques, Film Scoring, Mastering and Post-Production, and Promotion and Marketing. This course can apply toward the fulfillment of the Pre-Engineering Certificate. *Prerequisite: Music Technology 2.*

#### Introduction to Dance †

This course introduces students to ethnochoreology, the study of dance anthropology. Through the intersecting disciplines of anthropology, history, sociology and cultural studies students are invited to explore dance types across the globe from a non-ethnocentric perspective, aiming to understand dance in a cultural context. Students will investigate dance as it relates to religion and ritual, social functions, celebration, military training, and formal performance. No previous training in dance is needed; this course would be appropriate for any student interested in history, dance, sociology, anthropology or cultural studies.

#### Percussive Dance Types †

The aim of this course is to provide an overview of Percussive dance types found throughout the world and, in doing so, heighten students' understanding of dance, and the people who created and participated in said dance. Students will investigate and analyze an array of percussive dance types, some of which include Kathak, Saman, Flamenco, Irish Step, Gumbo and Tap dance. This course is appropriate for students of all forms. No previous dance experience is required. This course will contain a movement lab component aimed to heighten the understanding of material taught from an academic as well as a movement perspective.

#### Dance Composition †

The aim of this course is to provide students with tools for composing engaging, affective and communicative dance art works. Dancers will develop a deeper understanding of the choreographic

process and the underlying principles involved in creating dance compositions. Throughout this exploration, students will gain an enhanced knowledge of their unique choreographic voice and the ability to share that voice through dance. Students will explore an array of choreographic tools, some of which will include: Sources of Creative Inspiration, the Utilization of Structure, Shape, Space and Time as well as an Introduction to Laban Effort Shapes. This course will be divided equally between academic study and physical movement application. Therefore, this course is most recommended for students with an interest in the physical expression of dance.

## **RESEARCH & ACADEMIC SKILLS**

Research & Academic Skills offers New Student Seminar in a format tailored to a specific audience: new students in their 3rd or 4th form year. Students take this class in the fall of their first year at Kent to fulfill a graduation requirement.

New Student Seminar - 3rd, 4th Forms (fall) ‡

New Student Seminar is designed to help students new to Kent evaluate and improve their work habits so they can produce their best academic results here and in the future. Students practice methods of organization and time management, review how their study choices help them process information, and are introduced to new methods of active study. We also teach basic research skills of accessing and evaluating information as well as introduce students to different types of academic resources they are expected to use at Kent. For many, Kent provides a first opportunity to create written work synthesizing one's own ideas with the published work of others and we teach students how to do this well. Navigating the vast world of information available today is an essential and life-long skill, and in NSS we encourage students to approach these challenges with an inquiring mind.

## **SCIENCE**

The laboratory classrooms of the Dickinson Science Building are home to Kent School's science courses. Introductory courses in biology, chemistry and physics form the core of the science curriculum, and a wealth of elective and Advanced Studies courses provide multiple levels for students to complete a rigorous four year study in sciences. The graduation requirement is a minimum of two years of lab science courses, however most students challenge themselves with coursework in the sciences each year. *Departmental approval is required for all Honors, Accelerated, and Advanced Studies Courses.*

Biology 1/Honors Biology 1 ◇

Biology 1 is an introductory course open to all students. It emphasizes application of the scientific method in discovering and verifying major concepts in biology. Through reading, experimentation, and observation students study cellular biology, genetics, evolution, characteristics of life, and human



physiology. Honors Biology 1 is a fast-paced course that explores the basic concepts more quickly so that a more thorough treatment of certain topics is possible. *Prerequisite: departmental approval for enrollment in Honors level.*

#### Advanced Studies in Biology ◇

This college-level biology course challenges students with an intensive study of biochemistry, cell structure and function, evolution, genetics and human systems. Students completing the course will be prepared for (but not required to take) the College Board's AP Biology examination. *Required prerequisites: Biology 1, Chemistry 1 and departmental approval.*

#### Chemistry 1/Honors Chemistry 1/Accelerated Chemistry 1 ◇

Chemistry 1 investigates types of chemical reactions, molar relationships and stoichiometry, Kinetic theory and gas laws, atomic structure, periodic law, bonding, states of matter, thermodynamics, solutions, equilibrium, and acids and bases. The calculations require basic algebra. Laboratory work parallels and augments the class material. Formal lab reports are an integral part of the course. Honors Chemistry 1 explores the topics in greater depth, the quantitative material is more rigorous, and the lab work is more significant. Accelerated Chemistry is a first year course intended for students with some previous chemistry experience and covers the topics of Honors Chemistry 1 at an accelerated pace while maintaining the comprehensive laboratory experience of an Honors Chemistry 1 course. The pace of the course allows students to cover additional topics not covered in the Honors Chemistry 1 course including reaction equilibrium, redox reactions, electrochemistry, organic, and nuclear chemistry. *Prerequisite: departmental approval for enrollment in Honors/Accelerated level.*

#### Advanced Studies in Chemistry ◇

This college level general chemistry course builds on the foundation of the first year chemistry course. Students completing this course will be prepared for (but not required to take) the College Board's AP Chemistry examination. *Prerequisites: Chemistry 1, Physics 1, strong background in math, departmental approval.*

#### Physics 1/Honors Physics 1/Accelerated Physics 1 ◇

This course follows a classical sequence of topics including mechanics, magnetism, and electricity. This course applies the basic concepts of physics to real-world phenomena. Demonstrations and laboratory work are an integral part of this course. Honors Physics 1 follows the classical sequence of topics covered in the Physics 1 course but does so in more depth and with a more mathematical approach. Additional topics draw from waves, relativity, and astronomy. Accelerated Physics is a demanding, first-year physics course designed to challenge students with extensive science backgrounds with theory and in laboratory work. The curriculum is broad and fast paced, covering mechanics, electromagnetism, optics, thermodynamics, hydraulics, and nuclear physics. Students who

take Accelerated Physics 1 have the option, with additional independent work, to take the AP Physics 1 and 2 exams. *Prerequisite: departmental approval for enrollment in Honors level; departmental approval as well as Accelerated Algebra 2 or Pre-Calculus required for enrollment in the Accelerated level.*

#### Advanced Studies in Physics ◇

This college-level, calculus-based course is designed for students with significant physics experience. Students completing this course will be prepared for (but not required to take) the College Board's AP Physics C examination in both Mechanics and Electricity and Magnetism. *Prerequisite: Physics 1, Advanced Studies in Calculus either completed or taken concurrently, departmental approval.*

#### Advanced Studies in Psychology

Advanced Studies in Psychology acquaints students with the systematic and scientific study of the behavior and mental processes of human beings. This introduction to psychology covers topics that include theories and findings on learning, memory, perception, social development, and personality, as well as abnormal psychology. It also gives students an opportunity to experience material covered in the texts through in-class demonstrations and out-of-class activities. One major goal of AP Psychology is to develop a proficiency in basic psychological principles in preparation for the AP exam, which all students in the course take. *Prerequisite: departmental approval, 5th and 6th form students only.*

#### Advanced Studies in Environmental Science ◇

This college level course examines the scientific principles, concepts, and methodologies required to understand interrelationships in the natural world including the atmosphere, ecosystems, geology, and our oceans. The impacts of human society including agriculture, energy production, and the risks associated with their impacts on our water and air are examined in field and laboratory studies. Students completing this course will be prepared for (but not required to take) the College Board's AP Environmental Science examination. *Prerequisites: Biology 1, Chemistry 1, departmental approval; Physics 1 recommended.*

#### Ecology 1 (fall) † ◇

The core concepts of evolution form the roots of this course. Students examine adaptations of local flora and fauna and interactions between organisms with regard to energy demands. *Prerequisite: Biology 1*

#### Marine Biology (winter) † ◇

Students explore the physical parameters of oceans, unique adaptations of major taxonomic groups and ecological interactions of marine life forms. *Prerequisite: Biology 1 and Ecology 1 or demonstrable grasp of ecological concepts.*

### Ecology 2 (spring) † ◊

With multiple field studies focusing on the freshwater ecosystems of Kent students examine pond, stream and wetland environments with a focus on relationships between physical factors, organisms and human activities within watersheds. *Prerequisite: Biology 1 and Ecology 1 or demonstrable grasp of ecological concepts.*

### Genetics (fall) †

This course explores the principles and applications of modern genetics. Major topics include DNA structure and chromosome organization, transmission thermodynamics and genetics, pedigree analysis, genes in populations, cancer, metabolic disorders, and genetic screening. *Prerequisite: Biology 1. Open to 5th and 6th formers only.*

### Astronomy (fall) †

Astronomy is a survey of historical and modern astronomy. Topics include the solar system, stars and galaxies, cosmology, black holes, and quasars. The student supplements theoretical study with the use of Kent School's telescopes.

### Geology (spring) †

This course is a survey of the major landforms on the earth's surface. Beginning with the study of minerals, rocks, and the rock cycle, students examine weathering, plate tectonics, rivers and streams, ground water, glaciers, deserts, and shorelines.

### History of Life on Earth (winter) †

History of Life on Earth covers the basics of paleontology and its impact on our understanding of evolution and the development of the diverse life forms on our planet. Exploring hundreds of millions of years of organisms recorded in the fossil record, the course will explore principles of geology, evolution, origins of oxygen, mass extinction events including the rise and fall of the dinosaurs. *This course is taught in alternating years with Meteorology.*

### Meteorology (winter) †

Meteorology explores the basics of weather and climate. Emphasis is placed on the physical conditions that lead to the phenomena we experience every day, the methodology and challenges in predictions and implications of changing conditions. *This course is taught in alternating years with History of Life on Earth.*

### Pandemics (fall) †

Pandemics examines the history, evolution and future of major diseases that have impacted human populations. The course probes the evolution of Homo sapiens, the nature of infectious disease transmission, and the impact of historical outbreaks of smallpox, cholera, malaria and others. An exploration of current pandemics, including AIDS, Ebola and Zika concludes with analyses of as yet unknown future emerging disease causes and sources. *Prerequisite: Biology 1.*

Biotechnology (winter) † ◇

This survey course introduces students to recombinant DNA technology. Students gain hands-on experience in such techniques as: bacterial transformation, DNA isolation, cloning and targeted amplification (with PCR), restriction analysis, and gel electrophoresis. The lectures and discussions focus on current topics in DNA forensics, gene therapy, the genetic engineering of crop plants, cloning, genetic screening, and bioremediation. Consideration is also given to the ethical, legal, and philosophical issues associated with biotechnology today. *Prerequisite: Biology 1.*

Human Anatomy (spring) †

Human Anatomy examines the anatomy and physiology of selected systems in the human body. *Prerequisite: Biology 1.*

## **THEOLOGY**

All Theology courses are term-contained. Introduction to Religion and Culture, which is a graduation requirement, may be taken during the 5th or 6th form year. There are no prerequisites for theology electives, which are taken in the 4th, 5th, 6th form year.

Introduction to Religion and Culture (fall, winter, spring) †

This course explores the academic study of religion, surveying the interpretation of myth, history, and fiction in order to distinguish how concepts such as “truth,” “fact,” “belief ” and “knowledge” are used in varying contexts. We examine creation myths from different religions, read biblical stories with an emphasis on historical criticism, look closely at the anthropology of violence and the way religion in contemporary times has been weaponized for political purposes, and read novels by authors such as Kurt Vonnegut and Elie Wiesel. *This is a graduation requirement open to members of the fifth and sixth forms.*

Psychology and Religion (fall) †

Psychology and Religion seeks to establish a dialogue between the discourse of science and the questions and concerns of religion. The class acknowledges and makes explicit the very different ways science and religion view “knowledge.” We look at the history of psychology from the ancient Greeks through the twenty-first century, read selections by Sigmund Freud and Carl Jung and engage

contemporary thinkers such as Rene Girard and Ernest Becker on questions regarding the value of religion, the human fear of death, and the problem of violence.

#### Dreams (winter) †

This course will survey different cultural, religious and scientific attitudes toward dreams and dreaming. Reading Sigmund Freud and Carl Jung as well as contemporary authors, we will bring science and religion into dialogue by exploring both side by side regarding a universal human experience: everyone sleeps, everyone dreams.

#### World Religions (spring) †

World Religions looks at religious traditions not covered in Theology. We explore Buddhism, Islam, Native American traditions, and Hinduism. We read, for example, selections from Black Elk Speaks and the Ramayana. The theme of the course is to explore a number of questions: What is a “religion?” How is religion defined? What is unique about the study of religion as opposed to other academic disciplines such as the study of history or literature?

#### Philosophy (spring) †

This term-contained course is an introduction to the major philosophies that have shaped western thought - those of Plato, Aristotle, Descartes, Hobbes, Locke, Hume, Rousseau, Kant, Mill, and others - and to fundamental philosophical questions: “How do we know anything?”, “Are we free or determined?”, “What is the basis of morality?” Through selected readings, class discussions, and presentations, students practice the skills of critical thinking, essay writing, and public speaking.

### **NON-CREDIT COURSE**

#### Confirmation

The opportunity to be confirmed in the Episcopal or Roman Catholic Church is open to all interested students. Classes meet regularly and are conducted by the chaplains and other qualified clergy. The services of Confirmation usually take place in the spring. Students interested in this commitment and declaration of faith are encouraged to discuss it with the clergy.