

OXBRIDGE ACADEMY 2019-20 COURSE CATALOG

This catalog is a valuable reference manual for students, parents, and school personnel actively involved in curriculum planning at Oxbridge Academy. The curriculum of Oxbridge Academy is comprised of a core group of subjects intended to promote lifelong learning along with a wide array of elective courses designed to allow students to explore and experience subjects and topics they may not have previously considered. Class sizes are small enough to permit individual attention.

Students are placed in sections appropriately matching their current skill level in order to promote success and engagement. The Honors sections offer a more demanding and accelerated pace to challenge the more well-prepared students. Oxbridge has developed its own Honors Seminar courses in core subjects that are equivalent to or go beyond the Advanced Placement® (AP®) curriculum. Oxbridge does not offer any Advanced Placement courses. The Honors Seminar courses provide willing and academically prepared students with the opportunity to immerse themselves in the rigor of college level work. Honors Seminar classes are often characterized by challenging material, extended writing assignments, and demanding projects requiring more individual responsibility. Honors Seminar courses in any academic discipline are our most rigorous courses offered and are generally only available to juniors and seniors.

The graduation requirements are provided to ensure that Oxbridge Academy graduates successfully complete a course of study in a broad range of disciplines and skills that provide an excellent educational foundation. Please keep in mind that these are minimum requirements and do not equate to college admissions requirements. Since most successful college applicants exceed minimum graduation requirements, we recommend that candidates take the most rigorous academic program available that they can handle without undue stress.

Students are encouraged to select courses that will be academically stimulating and personally enriching. Teacher recommendations and placement tests are the guides used by the scheduler for selecting core courses for our students. We have done a great deal of work in trying to identify those students who are capable of successfully completing honors level work. However, we recognize that there can be other important factors in recommending honors courses for our students. There may be students who can rise to the challenge of taking an honors class and/or can handle a schedule with a larger number of honors courses.

Please understand that once a student has moved into an Honors or Honors Seminar course, the ability to make a subsequent level change is dependent upon seat availability in the requested course. Maintaining acceptable class size will be a priority. In addition, the student is responsible for missed work. Grades follow the student with a level change, with due consideration given to the weight of that grade.

Typically, a study hall is required for all 9th graders to assist with the transition to an increased workload at Oxbridge. However, 10th, 11th & 12th graders with proven academic success are not required to enroll in study hall and may take another core or elective course.

Please remember that a student's ability to be enrolled in an elective is dependent upon seat availability in the requested course. Room utilization and maintaining acceptable class size will be a priority. Students will be able to choose up to three electives in order of priority. If you do not receive your primary choice, the scheduler will attempt to enroll you in your alternate choices if possible. In the event a first-choice elective course is unavailable, or if a scheduling conflict, e.g., two courses offered at the same time, prevents the first-choice elective course from being scheduled, the software will substitute the requested alternate option. Please understand that there are no guarantees, and core courses take precedence over electives.

Students and/or their parents should also consider seeking course selection advising from appropriate Oxbridge staff. It is very important to understand the ramifications of your decisions.

Table of Contents

	Page
Graduation Requirements Grade 12	3
Graduation Requirements Grades 9-11	4
Arts – Visual	5
Arts – Performing	9
Arts – Theater	9
Arts – Music	10
Arts – Dance	11
English	12
World Language – Spanish	17
World Language – French	20
World Language – Chinese	22
World Language – American Sign Language	23
Mathematics & Computer Science	24
Science – Physics	29
Science – Chemistry	31
Science – Biology	32
Social Science – History	33
Social Science – Government, Economics, Psychology	36
Health and Wellness	39

Oxbridge Academy Graduation Requirements

Students in grade 12 must meet the following graduation requirements to earn a diploma:

Subject Area	Credits	Required Courses
English	4	4 credits of English while in high school.
Mathematics	4	4 Credits of Math while in high school (at a minimum through Algebra II) <i>With proof of completion of Algebra I, Geometry, and Algebra II</i>
Science	3	At least one credit each in Physical Science with Lab (Physics), Chemistry with Lab (Chemistry), and Biological Science with Lab (Biology).
Social Sciences	3	Consisting of World History (9 th), United States History (10 th), and Government & Economics
World Languages	3	Students are required to complete 3 credits of a language. Students must take a minimum of 2 consecutive years of the same language. Typically, students will continue to a third consecutive year, however, students may complete a year of a different language to satisfy their remaining graduation requirement.
Life Fitness 9	1	Two semester-long half-credit courses of Life Fitness 9 which includes a Comprehensive Health component.
Health and Wellness	1	Two additional semester-long half-credit elective courses must be taken between grades 10 and 12.
Fine Arts	1	Any combination of Visual Arts and/or Performing Arts courses for which the student can meet the prerequisites.
Electives	6	A student may take an additional core subject course, or any other course of special interest to meet the elective requirements.
Online Learning	n/a	Online Learning courses may not be taken for Oxbridge credit in lieu of Oxbridge Academy courses unless there is an irresolvable scheduling conflict and/or prior written approval.

Things to Know

- Students earn one credit for a year-long course and 1/2 credit for a semester course. Course credits are awarded only at the end of the course.
- Students must earn a minimum of 26 credits to graduate and a minimum of 6 credits per year.
- The yearly academic program should include a minimum of five academic courses each year.
- Any requested exceptions to graduation requirements will be considered on an individual basis.
- Oxbridge Academy reserves the right to evaluate each student's transcript at the time of entrance to determine which transfer credits will be accepted from another school.

Oxbridge Academy Graduation Requirements

Students in grade 9, 10 and 11 must meet the following graduation requirements to earn a diploma:

Subject Area	Credits	Required Courses
English	4	4 credits of English while in high school.
Mathematics	4	4 Credits of Math while in high school (at a minimum through Algebra II) <i>**With proof of completion of Algebra I, Geometry, and Algebra II</i>
Science	3	At least one credit each in Physical Science with Lab (Physics), Chemistry with Lab (Chemistry), and Biological Science with Lab (Biology).
Social Sciences	3	Consisting of World History (9 th), United States History (10 th), and Government & Economics
World Languages	3	Students are required to complete 3 credits of a language. Students must take a minimum of 2 consecutive years of the same language. Typically, students will continue to a third consecutive year, however, students may complete a year of a different language to satisfy their remaining graduation requirement.
Health and Wellness	1	A one credit course in Lifetime Health and Fitness is required for all freshmen.
Fine Arts	2	One-half credit in Introduction to Visual Arts and one-half in Introduction to Performing Arts courses are required for all freshmen. Special elective offerings for grades 10-12.
Electives	4	A student may take an additional core subject course or any other course of special interest to meet the elective requirements.
Online Learning	n/a	Online Learning courses may not be taken for Oxbridge credit in lieu of Oxbridge Academy courses unless there is an irresolvable scheduling conflict and/or prior written approval.

Things to Know

- Students earn one credit for a year-long course and 1/2 credit for a semester course. Course credits are awarded only at the end of the course.
- Students must earn a minimum of 24 credits to graduate and a minimum of 6 credits per year.
- The yearly academic program should include a minimum of five academic courses each year.
- Students in 9th grade who elect Debate, Band, Orchestra, Chorus, Theater or Honors Computer Science^{1*} will be exempt from the Freshman Visual Art/Performing Art credit. These students will still be required to fulfill the additional 1 credit in Art.
- Any requested exceptions to graduation requirements will be considered on an individual basis.
- Oxbridge Academy reserves the right to evaluate each student's transcript at the time of entrance to determine which transfer credits will be accepted from another school.

¹*must have completed Honors Algebra 1 and Honors Geometry.

ARTS - VISUAL

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
71000	INTRODUCTION TO THE VISUAL ARTS	SEM	None. Open to Freshmen Only	<p>This required course for all freshmen provides a foundational experience in several dimensions of the visual arts including: 2D Art (drawing and painting), 3D Art (sculpture and ceramics), Digital Graphic Design, and Photography (digital and darkroom). Over the course of a semester, students will participate in each category of the visual arts through work with specialized instructors in those areas. The goal of the course is to introduce freshmen to the diverse range of meaningful visual arts experiences in which many might choose to focus their studies at a later point in high school.</p> <p>Note: Freshman students who already have proficiency in either the visual arts and/or the performing arts (Band, Orchestra, Theater, or Chorus) as demonstrated by portfolio or audition/permission of the instructor are exempt from the two sequences of Visual and Performing Arts. In addition, students who wish to pursue Debate or Honors Computer Science 1 instead of the Visual or Performing Arts are exempt from the requirement.</p>
72001	MIXED MEDIA SCULPTURE I	SEM	None.	<p>This beginning sculpture course introduces students to a range of creative building and design methods in 3D Art, with no experience necessary. Students will explore wood, clay, wire, plaster, cardboard, and other non-traditional materials as they make original works of art. Projects may include hybrid objects in clay, massive models, inflatable sculpture, mini golf components, and found object compositions. Upon completion of this course, students may choose to move on to other 3D Art classes such as Mixed Media Sculpture 2, Ceramics 1, or Wood and Metal Working 1.</p>
72002	MIXED MEDIA SCULPTURE II	SEM	Mixed Media Sculpture I	<p>This class is a continuation of the mixed media sculpture 1 course. Students will build upon skills learned in the previous course such as planar construction, clay modeling, and found object assemblage. This course will introduce new building techniques such as: the construction of large-scale installation art, carving, figure sculpting, and 3D digital design. Throughout the semester students will study methods of sculpting embraced by exciting contemporary sculptors, while building their portfolio and design skillset. This course is for students who like to use their hands and take creative risks.</p>
71110	PHOTOGRAPHY 1	SEM	None	<p>Photography 1 is a broad-based introductory course in the study of Photography designed to inspire and educate the students on the possibilities of photographic media. Students will primarily explore the photographic image by means of a school provided digital camera. They will also gain familiarity with techniques for the manipulation of images through the Adobe programs provided on their school-issued laptops. In addition, students will receive a brief introduction to black and white film photography and the processes of development and printing in Oxbridge's state-of-the-art darkroom.</p>
71201	PHOTOGRAPHY 2	SEM	Photography 1 or Instructor Permission	<p>This course is a continuation of Photography 1 and offers the opportunity for students to embrace both modern and traditional techniques employed in various genres of photography, including studio lighting, digital photography, film photography, darkroom printing, as well as retouching. Students will experience the world of post-production where images are enhanced, altered, and manipulated for increased visual impact with the use of Adobe Lightroom and Photoshop. At the end of the semester, students are</p>

				equipped with a working knowledge of each step of the photographic process: from inception, to planning, to capturing an image, and post-production.
71210	DIGITAL GRAPHIC DESIGN 1	SEM	None	Students will learn the basics of Adobe Photoshop, Illustrator, and InDesign. Students will learn the basic principles of design such as spacing, margins and color. Projects will include how to learn to Cut Out Pictures, understand the differences in creating Logos, Book covers, Magazine Covers and a Tri-Fold Portfolio.
71220	DIGITAL GRAPHIC DESIGN 2	SEM	Digital Graphic Design 1	Students will continue their design knowledge in aspects of quality, layout, and type control. Students will also continue their knowledge in Adobe Photoshop, Illustrator, and InDesign and Bridge. Projects will include Advanced Blending, Movie Posters, iOS app design, Real Estate AD, and Personal Logo.
71230	VIDEOGRAPHY 1	SEM	None	Students will learn the basics of video such as camera operation, camera angles, sound, editing, and basic script writing. Students will learn the basic operations of the programs Adobe Rush and work their way to Adobe Premier. Projects include naming camera angles, Cut-Ins and Cut-Aways, PSAs, and Department Commercials.
71231	VIDEOGRAPHY 2	SEM	Videography 1	Students will continue their knowledge of script writing, storyboarding, and camera options as well as the addition of equipment such as lighting, green screen, and mics. Students will continue growing in the knowledge of Adobe Premiere and After Effects. Projects will include the techniques in creating re-editing movie trailers, dynamic interviews, and movie shorts of different genres.
71232	MOTION GRAPHICS ANIMATION 1	SEM	Digital Graphic Design 1	In Motion Graphics Animation I, students will learn the basic of animating video and graphics by using layout, motion, and scaling. Students will create assets and animations using Adobe Photoshop, Illustrator and After Effects. Projects will include creating a Netflix Animated Wallpaper, Animating Logos, Lyric Videos, and Title Intros.
71233	MOTION GRAPHICS ANIMATION 2	SEM	Motion Graphic Animation 1	Students will continue their knowledge of Adobe After Effects to a new level with new techniques in animation design skills, motion easing, scale easing, advanced masking. Projects will include Story Telling with 2D shapes, Advanced Transitions, Phone Commercials, TV channel rebranding and an Animation Portfolio.
72003	DRAWING I	SEM	None	This class introduces students to a range of drawing techniques that are used in the creation of illustrative works. The class teaches the proper use of a variety of artistic tools to develop an awareness of craftsmanship in finished works. Through this course, students will have the opportunity to draw from observation as well as from their own interests for themed drawings. This course is preparation for Painting and all advanced level 2D Mixed Media courses.
72004	DRAWING II	SEM	Drawing I	This course uses the skills and techniques learned in Drawing I as a foundation for students to create works that fit their own personal style. Projects are designed to work towards developing students'

				strengths and interests, while teaching them advanced skills and techniques of drawing media such as pencil, colored pencil, chalk and oil pastel, collage, and several others. This course is preparation for Painting and 2D Mixed Media courses.
72005	PAINTING I	SEM	None	This course introduces students to the three primary forms of paint: watercolor, acrylic and oil. The class teaches proper safety, tools, and techniques of each medium in order to establish best practices and craftsmanship skills. Projects are based on personal photographs given specific themes that work best for each medium. Students will learn about how color and layers bring their paintings to life. This course is preparation for all 2D Art classes.
72006	PAINTING II	SEM	Painting I	Painting II continues the study of watercolor, acrylic and oil paint. Projects are designed to explore more complex painting concepts while allowing for creative freedom and personal interests. This course offers opportunities for students to develop their own painting style and to seek inspiration from historical and contemporary artists. Completion of this course is preparation for 2D Mixed Media classes, as well as Portfolio Design: Advanced Topics in Drawing and Painting.
72007	2D ART: MIXED MEDIA I	SEM	Drawing or Painting	This course focuses on combining several traditional art-making materials to create more dynamic compositions. This class uses basic drawing and painting skills to teach students how to identify which materials work well together. Projects are designed to encourage students to create and destroy; work with layers; and utilize non-traditional materials to express their individual vision. Students have the opportunity to create works ranging from abstracts to representational, as developed from personal interests or social topics.
72008	2D ART: MIXED MEDIA II	SEM	2D: Mixed Media I	This course is designed to build upon the skills and techniques used in Mixed Media I. Students will be introduced to new materials and processes such as textiles, printmaking, and rusting. This class is treated much like an independent study or Portfolio Design class, as students will propose their own themes to explore in mixed media. This class prepares students for the study of Portfolio Design: Advanced Topics in Drawing and Painting.
71331	WOOD & METAL WORKING 1	SEM	None	This course introduces students to a range of wood and metal working techniques that are used in the creation of both functional and sculptural works such as wooden cell phone speakers, lamps, garden planters, and aluminum sheet metal creations. The class teaches proper use of both hand and power tools and emphasizes the concept of craftsmanship in finished works. Through this course, students have an opportunity to explore and develop real-world occupational skills as they participate in a Habitat for Humanity house building project. This course prepares students for Wood and Metal Working 2, or another 3D art class.
71332	WOOD & METAL WORKING 2	SEM	Wood & Metal Working 1	This course is designed to build upon the tools and techniques used in Wood and Metal Working 1. Students will be introduced to new fabrication techniques with wood and metal such as woodcarving, welding, mosaic making, building set pieces for theater, and making original hybrid projects using combined working methods. This class is for students who like to work with their hands and who have interest in all stages of 3D project design and construction. This class prepares students for Wood and Metal Working 3, Independent Projects, or study in another area of 3D art.

71333	WOOD & METAL WORKING 3: INDEPENDENT PROJECTS	SEM	Wood & Metal Working 2	This is a course for students who have completed both beginning and intermediate levels of wood and metal working and would like to create more intensive projects such as furniture-making or large-scale sculptural pieces. This semester-long class is treated much like an independent study or portfolio development. At the start of the semester students will propose a series of wood and/or metal working projects they would like to complete over the course of the semester. Under instructor guidance, students will use the tools and equipment in the 3D art studio to fabricate their designs.
71430	CERAMICS 1: INTRO TO HAND BUILDING AND WHEEL THROWING WITH CLAY	SEM	None	Students in Ceramics 1 are introduced to the basic processes of making both traditional and sculptural works in clay through methods of hand-building and wheel-throwing. In addition to exploring historical examples of ceramic vessels, students learn about some of the influential art movements embraced by ceramics in recent years such as Pop and Funk. This course is a general survey of clay working methods and prepares students who want to develop their skills further in Ceramics 2 or Mixed Media Sculpture.
71431	CERAMICS 2: DEVELOPING HAND BUILDING AND WHEEL THROWING SKILLS	SEM	Ceramics 1	This class is designed to further develop methods of hand building and wheel throwing that were explored in Ceramics I. Members of the class learn how to throw complex forms on the pottery wheel and build works of clay art using combined hand building techniques. Slip casting and mold making will also be explored. This course prepares students for participation in Ceramics 3: Independent Studies, or another 3D art class.
71436	CERAMICS 3: INDEPENDENT PROJECTS	SEM	Ceramics 2	This is a course for students who have completed both beginning and intermediate levels of Ceramics and are seeking a more intensive focus in the clay arts. This semester-long class is treated much like an independent study or portfolio development. At the start of the semester students will propose a series of clay projects they would like to complete using hand building and/or wheel throwing methods. Under instructor guidance, students will work to build these projects over the course of the semester using all of the clay-working tools and equipment the 3D art studio has to offer.
72009	PORTFOLIO DESIGN I	SEM	Instructor Approval	This course is for students who have completed both beginning and intermediate levels of 2D Art courses and are seeking a more intensive focus on their Drawing and Painting styles. At the beginning of the semester, students will propose a theme of their own interest that will guide the creation of several works over the course of the semester. Under instructor guidance, students will have access to a wide range of Drawing, Painting, Printmaking and Mixed Media materials. This comprehensive collection of work is designed to establish a portfolio suitable for college applications.
72010	PORTFOLIO DESIGN II	SEM	Portfolio Design I: Advanced Topics in Drawing and Painting	This course is a continuation of Portfolio Design I and an opportunity to add more complex works to the comprehensive collection of work already begun. Students should expect to show development of style and technique, as well as evolution of thought, through the creation of each new work. Portfolio reviews will provide students with additional opportunities to engage in conversation to share their knowledge of inspiration from historical and contemporary artists, as well as their understanding of art and design principles.

ARTS – PERFORMING

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
73000	INTRODUCTION TO THE PERFORMING ARTS	SEM	None. Open to Freshmen Only	<p>This required course for all freshmen provides experience in several dimensions of the performing arts: chorus, acting, movement, and stagecraft. Over the course of a semester, students will participate in each category of the performing arts through work with specialists in those areas. The goal of the course is to introduce freshmen to the range of performing arts experiences in which many might choose to specialize at a later point in high school.</p> <p>Note: Freshman students who already have proficiency in either the visual arts and/or the performing arts (Band, Orchestra, Theater, or Chorus) as demonstrated by portfolio or audition/permission of the instructor are exempt from the two sequences of Visual and Performing Arts. In addition, students who wish to pursue Debate or Honors Computer Science¹ instead of the Visual or Performing Arts are exempt from the requirement.</p>

ARTS-THEATER

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
73100	ACTING 1	YEAR	None	Learn the fundamentals of concentration, imagination, and improvisation through games and exercises in scene work and characterization. Evaluation is based on daily exercises, homework, individual growth, and projects. Curriculum will be appropriate for students interested in acting on stage, for film/TV, or who simply want to improve their public presentation skills. The course will culminate in a showcase performance.
73200	ACTING 2	YEAR	Acting 1 or Instructor Approval	Students continue the work they began in Acting 1, with a more advanced approach to actor training, techniques, and methods. Classwork includes scene work and short plays, as well as excerpts from longer works. The course will culminate in the performance of a one-act play.
73201	ACTING 3	YEAR	Acting 1 and 2, or Instructor Approval	Act in and direct short scenes, write short monologues and scenes to perform, examine the idea of a “character,” learn to analyze plays and other texts and to read for dramatic content, and gain experience with elements of scenery, costuming, sound, and lighting. This class is suitable for students who have had theater classes before, as well as having stage experience and want to continue their love of theater. This class will create their own group performance piece and produce it for the Oxbridge community.
73301	ACTING FOR NON-ACTORS	SEM	None	The class is designed to accommodate absolute beginners, and to provide students with an overview of the valuable skills that can be gained through acting training—and how they can be used in other areas of life. Instruction includes improv exercises, non-verbal communication, vocal and verbal expression, and basic presentation skills on stage or on camera. Students can work on overcoming stage fright, staying in “the moment,” and explore basic storytelling/narrative techniques of character development and creating connections with other speakers. There is no public performance requirement for this class (although students are always welcome to volunteer!)
73114	STAGECRAFT	YEAR	None	Learn about all the “behind the scenes” activities like set design and building, scenic painting, lighting, special effects, sound design, crafts

				and costuming. This class is the technical crew behind all productions in a variety of ways. Physical work required.
73211	HONORS PERFORMING ENSEMBLE	YEAR	Audition and Instructor Approval	The fall semester will be focused on preparing for our competitions: Florida Theater Conference One-Act Festival, District Thespian One-Act Festival, District Thespian IEs, and the English-Speaking Union Shakespeare Monologue Competition. Students enrolled in this class will have priority sign up for the 5 competition slots available for each individual event category. In the spring semester, the class will present a play and/or musical to learn and rehearse in class and perform for the public. Advanced acting techniques, choreography/movement, and classical theater in performance are important parts of the curriculum.

ARTS - MUSIC

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
74154	DIGITAL MUSIC	YEAR	None	Use music authoring and editing software to compose original music, create mash-ups, and alter existing music to create something new. This is a hands-on way to learn musical theory and composition and the skills to create musical tracks for digital movies and other audio-visual projects.
74140	STUDIO RECORDING AND PRODUCTION	YEAR	Digital Music	Students will develop skills in recording technique including acoustics, microphone setup and placement, digital multi-track recording and editing, mixing, and sampling. In addition, students will gain hands-on training and experience with podcasting, as well as live audio mixing in performance settings. Special attention will be given to the history of recording and audio production. The focus of evaluation is project oriented. Completion of Digital Music 1 and 2 is preferable.
74300	OXBRIDGE ROCK & CONTEMPORARY MUSIC ENSEMBLE	YEAR	None	This course is an opportunity to study contemporary, rock, and popular music genres through performance and rehearsal in an academic setting. Students will perform covers and originals spanning all styles and time periods. This ensemble will perform regularly at festivals, on and off campus, in-class, and other events. Students are expected to practice outside of class so that time in class may be devoted to rehearsal.
74209	WINDS & PERCUSSION CHAMBER ENSEMBLE	YEAR	None	This Chamber Ensemble/Concert Band course focuses on the performance of music literature for woodwind, brass, and percussion ensembles of various stylistic periods. Instruction cultivates performance techniques, artistic interpretation and overall musicality. Student ensembles will include, but not be limited to, student coaching, literature selection, composer research, accompaniment, arrangements, and performance production.
74309	STRINGS CHAMBER ENSEMBLE	YEAR	None	The Strings Chamber Ensemble/Orchestra performs music from the string repertoire of the Baroque, Classic and Romantic Eras with an emphasis on the development of string technique and ensemble skill. Student solos and/or ensembles will include, but not be limited to, student coaching, literature selection, composer research, accompaniment, arrangements, and performance production.
74409	JAZZ ENSEMBLE	YEAR	Instructor Approval	The Jazz Ensemble course is a performance group whose primary purpose is jazz music in small jazz ensembles. Instruction will be provided in jazz improvisation and ensemble performance techniques for various styles of jazz from the Swing Era to contemporary styles.

74301	BEGINNING PIANO	SEM	None	Beginning group piano course for students with little or no previous piano instruction. Areas covered will include fundamentals of posture and hand position, reading notes and rhythms, reading chord charts, understanding of basic music theory, and introduction to composition and computer notation programs. The course will be adapted to challenge individual levels and rates of progress.
74290	GUITAR	SEM	None	This course is designed to teach the basic skills and knowledge required to play the guitar, as well as teach basic music reading ability and music theory. Students will learn the basics of playing guitar at a beginner level through studying music notation, chord symbols, and peer modeling. Through this class, students will gain a better understanding of many different musical genres, and public performance may be a course expectation.
74508	HONORS OXBRIDGE CHORALE	YEAR	Instructor Approval	Advanced vocal students study choral works with emphasis on reading, diction, tone quality, interpretation and aesthetics. Students learn and perform an advanced level of repertoire that spans the Renaissance through Contemporary periods. Attention will be given to the languages and cultures associated with the particular choral literature.

ARTS - DANCE

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
75016	MOVEMENT & CONDITIONING FOR ATHLETES	SEM	None	Dynamic Moves blends the best routines from Pilates and yoga, with stretch and tone conditioning that incorporates dance forms of Salsa, Jazz and West African Dance. The class will provide a strong foundation for any student who aspires to increase and diversify physical potential. Dynamic Moves will liberate your body, calm the mind and focus your energy as you find your "personal best" to build strength, flexibility, and endurance.
75017	DANCE REPERTORY	YEAR	By Audition Only	This class combines contemporary, modern and classical dance techniques with guest artists in modern dance, jazz, hip-hop, and other dance genres. This class also supports students' choreography and improvisation. Performances are required for winter and spring concerts with the opportunity to perform in the South Florida area and beyond.
75018	DANCE FOUNDATIONS	YEAR	Open to All Levels	This course emphasizes ballet and modern/contemporary techniques with an emphasis on conditioning based in Pilates. The class is perfect for dancers and non-dancers who have a good movement background but may also come from other art forms (theater and music).

ENGLISH

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
30010	DEBATE 1: INTRODUCTION TO PUBLIC SPEAKING	YEAR	None	Students learn and try 8 different types of public speaking and debate, as they improve their skills in reading, research, organization, and communication. Public speaking formats include different areas of focus: current events, political topics, creative writing, improvisational speaking, and more. Students become more comfortable and skilled in speaking with and in front of others for a variety of purposes, including interpersonal and work-world communication strategies, and real-world applications/public speaking formats, such as job interviewing and written and oral presentation skills.
30011	HONORS DEBATE 1: INTRODUCTION TO SPEECH AND DEBATE	YEAR	Instructor Approval	Students learn and try 12 different types of debate and public speaking, as they improve their skills in reading, research, organization, and communication. Students learn and practice skills in improvisational speaking, persuasive speaking, argumentative debate, creative writing, presentations, acting, and more. The course includes political, philosophical, and global problem topics, as well as conversational and creative styles of speaking. For Honors Debate 1, there is a 4-tournament requirement for the year: students choose from a wide variety of after-school tournaments, Saturday tournaments, and travel tournaments, to find at least four they can attend, any time during the year.
30031 30030	DEBATE 2/HONORS DEBATE 2	YEAR	Debate 1 or Instructor Approval	Debate 2 builds on the fundamentals taught in Introduction to Debate. The course focuses on an in-depth analysis of issues related to economics, government policy, international relations, the Congress, the President of the United States, and contemporary issues facing the U.S. and the world. Through lectures, seminars, and readings students will be engaged in the politics and policies of the world as they relate to the debate topics presented by the national speech and debate association.
30043	HONORS SEMINAR DEBATE 3	YEAR	Honors Debate 2 or Instructor Approval	Debate 3 focuses on a critical analysis of arguments and honing rhetorical ability. Students will engage arguments written by non-governmental organizations, governments and, individual policy makers to critically review the premises, logic, and impacts of proposals. Students will also write arguments using briefs and other academic sources for use in National Speech and debate competitions. Students will continue to review and analyze a host of written and oral communication to improve argument formulation in both written and oral expression.

30044	HONORS SEMINAR DEBATE 4	YEAR	Honors Seminar Debate 3	Debate 4 has three fundamental components: Critical analysis of issues and arguments, understanding past present and future implications of issues and arguments, and college level written and oral communication ability. Building upon the skill of critical analysis of arguments studied in Debate 3, debate 4 will expose students to the implication of policies in nuanced and detailed ways. The course explores case studies of policies written, enacted, and their long-term impacts. Students will analyze policies through the lens of impacts both in the short and long term and be capable of applying this skill to national speech and debate association topics. Lastly, Debate 4 will focus on critical analysis of rhetorical analysis in both written and video texts to continue bolstering students' written and oral communication.
30112	ENGLISH 1	YEAR	None	English 1 is a survey course of ancient and modern literature from around the world, including Shakespeare's <i>Romeo and Juliet</i> , Homer's <i>The Odyssey</i> , J.D. Salinger's <i>Catcher in the Rye</i> , as well as other novels, poetry, and drama. Through rigorous writing and discussion, students learn to think critically about the important themes in these works. Teachers emphasize creative writing, dedicating an entire month to helping students compose their own novels. In addition, students learn intermediate grammar and vocabulary.
30122	HONORS ENGLISH 1	YEAR	Department Approval	This course is designed to challenge the highly motivated student who has demonstrated advanced skills in critical reading and composition. This course provides an intensive study of literary forms, including rhetorical devices, methods of critical analysis, and various modes of composition. Vocabulary development and grammar study are important elements of the course, as is the acquisition of effective collaboration and oral discussion skills. Students read challenging classic and modern texts from a variety of genres, including poetry, the novel, the short story, non-fiction pieces, and drama. Students create a writing portfolio that demonstrates strong proficiency with a variety of writing modes and with all aspects of the research process.
30212	ENGLISH 2	YEAR	English 1	English 2 students explore literary genres in American Literature to promote critical thinking and develop discussion and collaboration skills. Students will demonstrate command of the elements of effective composition and writing and will also read works of fiction, nonfiction, poetry, personal narrative, and drama that focus on the role of the individual in the community and the tensions that frequently emerge in that dynamic.
30222	HONORS ENGLISH 2	YEAR	English 1 and Department Approval	Honors English 2 is designed for students who have shown exceptional promise in writing and literary analysis. Course readings will be drawn from a diverse body of American literature and will ask students to consider the role of the individual in the community and the tensions that frequently emerge in that dynamic. Students will also continue to hone their writing skills; the course will help students gain increased confidence with analytical writing and revision tasks. Writing instruction will focus on guiding students as they craft strong analytical arguments in response to texts, and on teaching students how to effectively incorporate textual evidence and critical source materials into their essays.

20223	HONORS SEMINAR ENGLISH 2: AMERICAN LITERATURE	YEAR	Honors Seminar World History I Department Approval	Honors Seminar English 2 this is an advanced seminar-style course in American Literature that will be taught in conjunction with Honors Seminar U.S. History. There is a prerequisite for this course: Honors Seminar World History. The course is a chronological study of American Literature, from colonial writing to the post-Civil Rights era. Major movements in American Literature will be covered: Romanticism, Transcendentalism, Realism, Harlem Renaissance, and Modernism.
30312	ENGLISH 3	YEAR	English 2	Students will read works of fiction, nonfiction, poetry, personal narrative, and drama that focus on the efforts of individuals to make a difference in their social and cultural contexts. As students explore the actions of protagonists who experience the impact of the world about them, they will examine questions about success and disappointment in working for change. In some cases, individuals' triumph in overcoming the obstacles to personal and social progress; in other situations, human beings must confront apparently insurmountable barriers to happiness and fulfillment.
30322	HONORS ENGLISH 3	YEAR	English 2 and Department Approval	Honors English 3 students will read works of literature that deal with the human condition. Through close reading, discussions, research, presentations, and various types of writing. Students will become familiar with the themes and issues embedded in these texts, which include <i>Hamlet</i> , <i>1984</i> , <i>The Bluest Eye</i> , and <i>A Streetcar Named Desire</i> . Students will continue to gain skills in reading novels, plays, poetry, and short fiction.
30333	HONORS SEMINAR ENGLISH 3: BRITISH LITERATURE	YEAR	Open to Juniors with Instructor Approval	This course is a chronological study of British Literature beginning with Elizabethan theater and ending with Modernism. Students will examine canonical texts and their cultural impact. In this course, students will be expected to write college-level literary analysis that incorporates primary sources and criticism. Texts include <i>Hamlet</i> , <i>Paradise Lost</i> , <i>Frankenstein</i> , <i>Jane Eyre</i> , <i>Tess of the D'Urbervilles</i> , <i>Mrs. Dalloway</i> , <i>Brave New World</i> , and <i>1984</i> .
30562 30564	COLLEGE WRITING (HONORS AVAILABLE)	SEM 1	Required for all seniors not in Honors Seminar 4	College Writing is a semester-long course designed to prepare students for the modes of analytical academic writing and rigor that will be expected of them as college-level students. They will read and write essays that respond to prompts that require them to analyze, persuade, reflect, and inform. The course will teach all steps of the writing process, with an emphasis on revision and editing. This course is required of all seniors except for those in Honors Seminar 4.
30432	HONORS SEMINAR ENGLISH 4- GREAT BOOKS	YEAR	Open to Seniors with Instructor Approval	Students in this course will read works of literature that have withstood the test of time and offer distinct insights into the nature of human experience. Through close reading, discussions, research, presentations, and extensive writing, students will become familiar with the themes and issues embedded in these texts. Teachers select from a wide range of texts, including Morrison's <i>Beloved</i> , the Greek theater, Atwood's <i>The Handmaid's Tale</i> , Shakespeare's <i>King Lear</i> , Forster's <i>A Passage to India</i> , and Melville's <i>Moby Dick</i> . Students also complete a semester-long research project on a work of poetry or fiction.
30570 30565	ENGLISH 4-FILM AS LITERATURE (HONORS AVAILABLE)	SEM	Open to Seniors as second semester elective	In Film as Literature, we will examine films with the kind of careful analysis one would devote to a novel or poem. During the first several sessions, as we watch two classics (<i>Vertigo</i> by Alfred Hitchcock and <i>Citizen Kane</i> by Orson Welles), we will train

				ourselves to identify a film's technical aspects, including photography (angles, shots, lighting styles, color symbolism) and mise-en-scene (framing, composition, spatial relationships). These concepts, and others, will apply to all the films that we study, a diverse range of American films. Each screening will be followed by presentations and formal class discussions. Short reading selections will come from <i>Understanding Movies</i> by Louis Giannetti.
30555 30567	ENGLISH 4-AFRICAN AMERICAN LITERATURE (HONORS AVAILABLE)	SEM	Open to Seniors as second semester elective	African-American Literature is a semester-long course that uses African-American texts as primary entry points into major historical and contemporary conversations: race and racism, slavery and reparations, capitalism and the economically disadvantaged, cultural traditions and cultural appropriation, mainstream hip-hop and materialism, underground hip-hop and consciousness. As of now, the ever-changing set of texts for this course includes poetry by Phyllis Wheatley, Gwendolyn Brooks, and Natasha Tretheway, Toni Morrison's <i>Beloved</i> , Alice Walker's <i>The Color Purple</i> , bell hooks's <i>Rock My Soul: Black People and Self-Esteem</i> , Michelle Alexander's <i>The New Jim Crow: Mass Incarceration in the Age of Colorblindness</i> , Ta-Nehisi Coates' <i>Between the World and Me</i> , Jesmyn Ward's <i>Men We Reaped: A Memoir</i> , Kendrick Lamar's <i>To Pimp a Butterfly</i> , and J. Cole's <i>2014 Forest Hills Drive</i> .
30545 30546	ENGLISH 4-PRACTICAL WISDOM (HONORS AVAILABLE)	SEM	Open to Seniors as second semester elective	This is a course focusing on entrepreneurial and thought-provoking literature and personal and professional growth. Students will be required to keep a copious journal, contributing to it daily, chronicling the growth of their thoughts and their plans. They will also compose a comprehensive "business plan" for their lives, which will include the creation of a credible, realistic business venture, fictitious or real, as the culminating product. Guest lectures, live and via video, will be an integral aspect of the course, as will self-reflective writing. Students will read excerpts from important literature in the field.
30503 30568	ENGLISH 4-CONTEMPORARY WOMEN'S LITERATURE (HONORS AVAILABLE)	SEM	Open to Seniors as second semester elective	This course will complement the reading schedule for Honors Seminar English 4, using contemporary texts by female writers that comment on the classic texts: <i>Wide Sargasso Sea</i> , <i>Swamplandia!</i> , <i>Special Topics in Calamity Physics</i> , and <i>Station Eleven</i> . Through Socratic Seminars and writing tasks, we will explore the intertextuality between texts, analyzing them, at least in part, through a feminist critical lens of literature.
54730 548	ENGLISH 4-LITERARY NON-FICTION SCIENCE (HONORS AVAILABLE)	SEM	Open to Seniors as second semester elective	This course is a survey of non-fiction on various scientific topics. Students will examine a series of core texts as well as excerpts from companion works. In this course, students will be expected to write college-level literary analysis that incorporates primary sources and criticism as well as to cultivate a willingness to engage in scientific thinking and an appreciation for the scientific process. As a capstone project, students will conduct research and work with an additional literary non-fiction text in the science area of their choice. Key texts include <i>Stiff</i> ; <i>The Curious Lives of Human Cadavers</i> ; <i>The Demon Under the Microscope</i> ; <i>The Great Influenza</i> ; <i>Darwin to Shubin to Gould</i> ; <i>Your Inner Fish</i> ; <i>Surely, You're Joking Mr. Feynman</i> ; <i>Astrophysics for People in a Hurry</i> ; <i>The Immortal Life of Henrietta Lacks</i> ; and <i>The Botany of Desire: A Plant's-Eye View of the World</i> .
30549	HONORS ENGLISH 4-MODERN	SEM	Open to Seniors as second	This course first examines foundational dramatic texts of the mid 20th century—Miller's <i>Death of a Salesman</i> and Williams' <i>A</i>

	AMERICAN THEATER		semester elective	<i>Streetcar Named Desire</i> —as well as landmark musicals of the same time period—Rodgers’ and Hammerstein’s <i>South Pacific</i> and Bernstein’s <i>West Side Story</i> . The course then reviews later innovative moments in playwriting and musical composition with analysis of Sondheim’s <i>Sweeney Todd: The Demon Barber of Fleet Street</i> . The last half of the course moves into the “contemporary” mode of the genre with study of Jonathan Larson’s <i>Rent</i> , August Wilson’s <i>Fences</i> , and Tony Kushner’s <i>Angels in America</i> . We conclude with the revolutionary work in the musical theater of Lin Manuel Miranda’s <i>Hamilton</i> and Pasek’s and Paul’s <i>Dear Evan Hansen</i> .
30522	CREATIVE WRITING 1	SEM	Open to Sophomores, Juniors, and Seniors	Students in this course will experiment with two creative genres—poetry and fiction—as a way to develop a familiarity with both genres and also explore their own creative voices. Over the course of the semester, students can expect to generate original material, practice strategies for reading and talking about writing, and work toward creating a polished body of work. Students will read and consider published fiction and poetry, as well as their peers’ work. This course will also serve as an introduction and prerequisite to any of the upper level creative writing courses offered at Oxbridge.
30532	HONORS CREATIVE WRITING 1	SEM	Creative Writing	Having already taken Creative Writing, students will be familiar with the basic conventions and elements of fiction and poetry; they will also have encountered notable writers who have influenced these genres. In Creative Writing Honors, students will continue to read fiction and poetry, and they will also begin to explore reading and writing creative non-fiction. Students in this class will end the semester with work that is submission-ready and will be guided through the process of submitting their work for publication.
30533 30535	CREATIVE WRITING 2	SEM	Honors Creative Writing 1	Creative Writing 2 offers students the opportunity to deepen their writing experience. Various genres will be considered including poetry, fiction, creative non-fiction, screen writing, and drama. By the end of the semester, students will have created a self-directed work in a genre of their interest. Students will revise their work to hone the skills acquired in Creative Writing and Creative Writing Honors.
30561	PEER TUTORING AND COMPOSITION	SEM	Open to Sophomores, Juniors, and Seniors with Teacher Recommendation	This semester long class prepares students to work as peer tutors in the Oxbridge Writing Center. With the guidance of the instructor, students will consider how to best help other student writers work through all stages of the writing process—from brainstorming in response to a writing prompt to polishing a final draft of an essay. Students in the class will also learn the conventions of writing for different disciplines and will refine their own writing and revision processes by reading <i>The Longman Guide to Peer Tutoring</i> . For the last part of the course, students will complete a practicum wherein they put their skills to use tutoring other student writers.
30563	WRITING CENTER TUTOR	SEM	Peer Tutoring and Composition	Students will apply the skills they acquired in Peer Tutoring and Composition to their work in the Writing Center. Responsibilities in the Center during the assigned period will include: meeting one-on-one with peers to tutor them through the writing process, producing mini-lessons or handouts on grammar or style, planning Writing Center social events with the goal of celebrating writing at Oxbridge, envisioning outreach programs for the future, and continuing to shape the Center's space and direction. While the student's required commitment will only be limited to the 90-minute window of the class, all tutors are welcome and

				encouraged to engage with the Center as much as they would like within the school day and beyond.
71300	HONORS DIGITAL MULTIMEDIA YEARBOOK-JOURNALISM	YEAR	Concurrently taking Honors English or Higher	This course is designed to provide students with a medium of self-expression through the hands-on production of both the creative and technical elements of yearbook assembly. Units of study include teamwork, responsibility, brainstorming, confidentiality, coverage, concept development, reporting, writing, headlines, captions, editing, photography, typography, design, marketing, and distribution. Those enrolled in the course will make content, coverage, marketing, and design decisions in adherence to journalistic standards. Students work within teams in accordance with their area of focus such as photography, design, writing, and marketing, under the leadership of student editors.

LANGUAGE - SPANISH

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
50112	SPANISH 1	YEAR	None	This course will introduce students to the Spanish language and the culture of the Spanish-speaking world. This class will emphasize the spoken language and verbal communication. It will also teach words, phrases and idioms that one will need to communicate in a Spanish-speaking country. One will also learn to tell other Spanish speakers about oneself and ask other questions about themselves in various tenses. Students are expected to reach novice-low to novice-mid levels of proficiency.
50212	SPANISH 2	YEAR	Spanish 1	Students in Spanish 2 will work on developing their listening, speaking, reading, and writing skills from a novice low to a novice mid proficiency level. Students will exchange information on a variety of topics, including, Latinos in the world, pastimes, technology, holidays, the arts, sports, transportation and health. Cultural aspects of the contemporary Spanish-speaking world will be studied through communicative activities and projects.
50222	HONORS SPANISH 2	YEAR	Spanish 1 and Instructor Approval	This course is offered to students who have shown substantial self-motivation and previous success in Spanish 1. Students in the course will advance at a faster, yet more in-depth pace. They will master grammatical topics such as the indicative, imperative, and subjunctive moods. Emphasis is placed on increasing the student's active vocabulary through authentic materials. Cultural aspects are taught through the history, geography, gastronomy, and pop culture of Spanish-speaking countries. Oral, written, listening, and reading assessments are essential components of the class; by the end of the year, students will have accomplished a variety of novice-high functional skills.
50312	SPANISH 3	YEAR	Spanish 2	Students in Spanish 3 will expand the depth and breadth of their proficiency through communicative activities with emphasis on speaking and auditory comprehension. Students will be able to

				express events in present and future tense, with the use of new and previously acquired grammatical structures. Students will apply their knowledge and understanding of grammatical structures and vocabulary to the production of projects, presentations, and short writing assignments. Students are expected to reach novice-high to intermediate-mid levels of communication.
50322	HONORS SPANISH 3	YEAR	Spanish 2 or Honors Spanish 2 and Instructor Approval	Spanish 3 Honors is an advanced level course designed to accelerate the linguistic proficiency of motivated students. Grammar lessons will be focused on using language in context, and students will be expected to immediately apply new structures to their spoken and written work. The course provides students with an interactive, productive, and receptive skills developed through the contextualized study of language, text and themes. Students are exposed to a variety of authentic texts and work is produced in a variety of communicative contexts. This course is taught primarily in the target language. Students are expected to complete practice outside of the classroom and be proactive in their acquisition of the target language. Students are expected to master the intermediate mid to intermediate-high levels of all four skill areas: reading, writing, listening, and speaking.
50421	SPANISH 4	YEAR	Spanish 3	Spanish 4 is an advanced-level course designed to improve students' communicative skills in Spanish through a variety of contexts, with an emphasis on spoken communication. Students will be able to exchange biographical information and life experiences, write their résumé, and prepare for a job interview in Spanish. Grammar will be learned contextually through hands-on activities such as: design an ideal city, plan a dream vacation to a Spanish country, create an advertising campaign for an original invention, etc. Students will also deepen their cultural appreciation through an exploration of art, history and cultural traditions across the Spanish-speaking world. Students are expected to master the intermediate-mid levels of proficiency.
50422	HONORS SPANISH 4	YEAR	Spanish 3 or Honors Spanish 3 and Instructor Approval	Spanish 4 Honors is an advanced-level course designed to improve motivated students' proficiency in Spanish through a variety of contexts. In addition to communicative activities where students will be expected to exchange biographical information and life experiences, students will also dive into the Hispanic literary canon. In-depth readings of short stories and poetry from a variety of authors such as Ana Maria Matute, Jorge Luis Borges, and Sor Juana Ines de la Cruz, will expose students to college-level coursework and assessments, as well as expand their cultural understanding. Through discussions of readings and exposure to contemporary media, students will develop a more profound understanding of grammar and vocabulary, as well as greater linguistic proficiency. Students are expected to reach intermediate-high to advanced-low levels of proficiency in all communicative areas of speaking, reading, listening, and writing.
50534	SPANISH 5	YEAR	Spanish 4	Spanish 5 is an advanced-level course designed to expand students' communication skills in Spanish through a modern and diversified approach to topics and cultural practices. Students will improve their competence skills and build their ability to interact in Spanish-speaking environments. Students will be exposed to all areas of linguistic

				competence, including listening, writing, reading, and socio-cultural awareness.
50531	HONORS SPANISH 5	YEAR	Honors Spanish 4 and Teacher Recommendation	Spanish 5 Honors is a course designed to advance students' proficiency through the study and discussion of short stories, poems, plays, art, and films. The structure of the course will be similar to a college survey course, where students are expected to engage in close readings and analyses of the thematic material and make inferences about a work's meaning. Students will also study films and artwork such as Buñuel's <i>Edad de oro</i> and Goya's <i>Pinturas negras</i> and discuss how they relate to or reflect cultural and historical events in the Hispanic world. By the conclusion of the course, students will be expected to reach advanced-low or advanced-mid levels of proficiency.
50560	HONORS SEMINAR SPANISH 6	YEAR	Honors Spanish 5 and Teacher Recommendation	The Honors Seminar Spanish Language and Culture course aims to develop students' mastery of the four language skills: reading, writing, listening, and speaking through extensive interpretive, interpersonal, and presentational tasks. Students sharpen their communicative skills in Spanish through advanced study in rigorous grammar, literature, and culture, and students learn about culture through the use of authentic materials that are representative of the Spanish-speaking world. Class is conducted completely in Spanish and includes frequent writing and integration of skills. Honors Seminar Spanish Language and Culture is a language acquisition course designed to provide students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where Spanish is spoken.

LANGUAGE - FRENCH

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
51112	FRENCH 1	YEAR	None	Students learn to introduce themselves and speak about their hobbies and interests. They focus on home, school, family, and daily lives using the present and the near future tense. Students learn phrases and idioms necessary for friendly social exchanges and learn to ask information used in shops and cafés. Dialogue, role play, and pronunciation are important components of our communicative approach to French. Students are expected to reach novice-low to novice-mid levels of proficiency.
50612	HONORS FRENCH 1	YEAR	Teacher Recommendation	Students learn to introduce themselves and speak about their hobbies and interests. They focus on home, school, family, and daily lives using the present and the near future tense. Students learn phrases and idioms necessary for friendly social exchanges and learn to ask information used in shops and cafés. Dialogue, role play, and pronunciation are important components of our communicative approach to French. This course is offered to students who show substantial motivation and previous experience in French and who wish to advance at a faster, yet also more in-depth pace. Students are expected to reach novice-mid to novice-high levels of proficiency.

51212	FRENCH 2	YEAR	French 1	Students build on their vocabulary and understanding of how the French language is similar to English and other languages. Students will learn to discuss activities that have occurred in the past. As students discover the different countries of the French-speaking world, they will learn phrases and idioms vital for travel. Projects allow students an in-depth investigation of the countries of their choice and allow them to plan a virtual vacation. Students begin to focus on reading and writing French and become familiar with famous poems by Vigneault, Gautier, LaFontaine, and stories of France and Québec. Students are expected to master novice-mid levels of proficiency.
51222	HONORS FRENCH 2	YEAR	French 1 and Instructor Approval	Students build on their vocabulary and understanding of how the French language is similar to English and other languages. Students will learn to discuss activities that have occurred in the past. As students discover the different countries of the French-speaking world, they will learn phrases and idioms vital for travel. Projects allow students an in-depth investigation of the countries of their choice and allow them to plan a virtual vacation. Students begin to focus on reading and writing French and become familiar with famous poems by Vigneault, Gautier, LaFontaine and stories of France and Québec. This course is offered to students who show substantial motivation and previous experience in French and who wish to advance at a faster, yet also more in-depth pace. Students are expected to master novice-mid to novice-high levels of proficiency.
51312	FRENCH 3	YEAR	French 2	Students review different ways of discussing the past and learn to recognize still other past tense forms used in poetry and literature, particularly the tales of Charles Perrault. New emphasis is placed on written expression as student's rewrite endings to classic French stories. Students learn to talk about what is going to happen in the future and learn to speak about hypothetical events. They delve deep into French gastronomy and learn to make suggestions and give orders with varying degrees of politeness. Emphasis is placed on both understanding and using different ways of asking questions. Students are expected to reach novice-high to intermediate-low levels of proficiency.
51322	HONORS FRENCH 3	YEAR	French 2 and Instructor Approval	Students review different ways of discussing the past and learn to recognize less used past tense forms used in poetry and literature, focusing on the tales of Charles Perrault. New emphasis is placed on written expression as student's rewrite endings to classic French stories. Students learn to talk about what is going to happen in the future and learn to speak about hypothetical events. They delve deep into French gastronomy and learn to make suggestions and give orders with varying degrees of politeness. Emphasis is placed on both understanding and using different ways of asking questions. This course is offered to students who show substantial motivation and previous experience in French and who wish to advance at a faster, yet also more in-depth pace. Students are expected to master intermediate-low levels of proficiency.
51412	FRENCH 4	YEAR	French 3	Students synthesize their knowledge of ways of discussing the past and the future as they learn idiomatic expressions of time. They discuss topical issues using expressions for hypothetical situations in the past, present and future. Students study the building blocks of French, Québec and North African society, with particular attention to festivals, traditions and legends. Students read the poetry and prose of Saint-Exupéry, Laye, Camus, and

				Molière. Students are expected to develop their intermediate-low to intermediate-mid levels of proficiency.
51422	HONORS FRENCH 4	YEAR	French 3 and Instructor Approval	Students synthesize their knowledge of ways of discussing the past and the future as they learn idiomatic expressions of time. They discuss topical issues using expressions for hypothetical situations in the past, present and future. Students study the building blocks of French, Québec, and North African society, with particular attention to festivals, traditions and legends. Students read the poetry and prose of Saint-Exupéry, Laye, Camus, and Molière. This course is offered to students who show substantial motivation and previous experience in French and who wish to advance at a faster, yet also more in-depth pace. Students are expected to master intermediate-mid to intermediate-high levels of proficiency.
51631	HONORS SEMINAR IN FRENCH CULTURE AND LITERATURE A	YEAR	Honors French 4 and Instructor Approval	Students will focus on oral and written modes of French as they examine superstitions of the French speaking world, dissect the habits, manners and cultural customs of European and North African French speakers, and hold discussions on current events. Students read romantic and symbolist poetry by Chateaubriand, Lamartine, Baudelaire, Rimbaud, Valery, Verlaine, and Flaubert, then study Vichy France and the theater of the absurd. This class is offered in alternating years with Honors Seminar in French B. Students will begin to develop and master the levels of advanced proficiency.
51630	HONORS SEMINAR IN FRENCH CULTURE AND LITERATURE B	YEAR	Honors French 4 and Instructor Approval	Students will focus on spoken and written French as they learn about Louis the Sun King and his role in the development of French gastronomy, art, dance, and theater. They will study the French Revolution and its causes and examine the changes wrought by the Revolutionary years. Students will study French media and contemporary French-language theater. Students will read writings of French political thinkers such as Montaigne, Descartes, and Montesquieu. They will delve into modern and contemporary theater (Ionesco, Martin) and will undertake a unit on countries colonized by France. Hands-on projects enable students to grow herbs found in the Sun King's garden and create their own advertisements. Students will begin to develop and master the levels of advanced proficiency.

LANGUAGE - CHINESE

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
52112	HONORS CHINESE 1	YEAR	None	This course is designed for students who have had no prior experience in Chinese language and are interested in learning basic Chinese language as well as culture. Oral communication will be stressed through listening and speaking activities. Students will be able to ask and answer questions on topics such as: greetings, numbers, date and time, self-introduction, and hobbies. Students will also learn reading and writing skills in basic simplified Chinese characters.
52212	CHINESE 2	YEAR	Chinese 1	Grammar patterns, vocabulary, good pronunciation, and the learning of characters continue to be stressed. Students will now be familiar with most of the basic sentence patterns and will have doubled their vocabulary and character knowledge. Oral proficiency is developed through in class discussion, role-playing, presentations, and group projects, movies, and videos. Students

				will focus on the ability to communicate in varied contexts. Increasing cultural knowledge is approached through various media.
52222	HONORS CHINESE 2	YEAR	Chinese 1 and Instructor Approval	Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students will be able to handle basic conversation, such as making appointments and bargaining. Students will also be able to write about their daily routine, study habits, favorite sports.
52312	CHINESE 3	YEAR	Chinese 2	Speaking, listening, reading and writing continue in a communication-oriented classroom. Students begin reading intermediate-level texts using a Chinese dictionary. Increasing vocabulary and developing reading and decoding skills are primary goals, along with improving writing and composition ability. The course emphasizes self-expression through classroom discussion and communication activities. Students will be exposed to a wide variety of media and linguistic forms to broaden their familiarity and comfort with Chinese language and culture.
52322	HONORS CHINESE 3	YEAR	Chinese 2 and Instructor Approval	At this level, students will be expected to: actively engage in their own learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations, respond appropriately to conversational prompts, and analyze and compare cultural practices and products. Main topic areas covered are weather, food and restaurant culture, travel, asking directions, and seeing a doctor. The reflection of students' progress will be seen in making mini movies, presentations, and journals.
52422	HONORS CHINESE 4	YEAR	Chinese 3 and Instructor Approval	Students will further develop their language skills across the three communicative modes: interpersonal, interpretive and presentational. Students will learn about various aspects of contemporary Chinese society, including Chinese geography and population, ethnic and regional diversity, travel and transportation, holidays and current affairs.
52522	HONORS CHINESE 5	YEAR	Chinese 4 and Instructor Approval	Students will develop advanced proficiency in Chinese and also the capacity to respond in culturally appropriate ways to questions on familiar topics, to understand conversations among native Chinese speakers, and to comprehend and compose email as part of back-and-forth communication with other Chinese speakers. They will express their personal views or exchange opinions on topics of Chinese education, jobs and interviews, gender imbalances, and environmental protection.
52523	HONORS SEMINAR CHINESE 5	YEAR	Chinese 4 and Instructor Approval	This course develops students' overall fluency in the language. Students will read and analyze literary works such as the biography of Yao Ming and <i>Journey to the West</i> and give various types of oral presentations based on their reading and cultural activities. In addition, students will learn how to conduct close readings of texts and analyze literature. Students will practice the process of writing short descriptive, reflective, and interpretive essays.

LANGUAGE-AMERICAN SIGN LANGUAGE

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
52800	AMERICAN SIGN LANGUAGE 1	YEAR	None	This introductory course will focus on developing the basic expressive and receptive skills necessary to communicate with deaf persons. Course content includes signs, fingerspelling, numbers, songs, activities, and grammatical and cultural information. Emphasis will be placed on skill development, correct usage of signs, and general understanding of signed languages used by deaf persons.
52801	AMERICAN SIGN LANGUAGE 2	YEAR	ASL 1	In ASL 2, students will continue to expand vocabulary and concepts acquired in level one. Expansion of conversational range will include talking about other people and activities, giving directions and making requests. Students will also develop discourse skills appropriate for establishing connections with deaf acquaintances and handling a variety of interruptions. This course will expand on fingerspelling, numbers, vocabulary, sentences and conversation, with a focus on interaction in ASL to allow them to apply what they have learned.
52802	AMERICAN SIGN LANGUAGE 3	YEAR	ASL 2	Students at this level should possess the content knowledge contained in American Sign Language 1 and 2. Instruction and student response at this level is required to be in American Sign Language only, with no vocalization by instructor and students. The course will cover rules of social interaction including role shifting, deaf history in the United States, fingerspelling at the intermediate sign language level, money systems, time sequence, color modifiers, English translation of dialogue and storytelling, and expanded vocabulary. The course will also cover deaf education, deaf community, interpreters, audiologists, doctors, and ASL literature stories.
52804	HONORS AMERICAN SIGN LANGUAGE 3	YEAR	American Sign Language 2 and Instructor Approval	American Sign Language 3 Honors is based on nonverbal foundation and focuses on developing expressive and receptive skills in American Sign Language. The purpose of this course is to enable students to develop basic skills in American Sign Language through a linguistic, communicative, and cultural approach to language acquisition. Emphasis is placed on receptive and expressive signing, applied grammar, and real-life applications.
52805	AMERICAN SIGN LANGUAGE 4	YEAR	American Sign Language 3	American Sign Language 4 is based on nonverbal foundation and focuses on developing expressive and receptive skills in American Sign Language. The purpose of this course is to enable students to develop basic skills in American Sign Language through a linguistic, communicative, and cultural approach to language acquisition. Emphasis is placed on receptive and expressive signing, applied grammar, and real-life applications.

MATHEMATICS & COMPUTER SCIENCE

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
11110	ALGEBRA 1	YEAR	None	This course is the foundation for all other high school math courses. Algebra 1 covers topics including but not limited to: linear relationships, exponential and quadratic relationships, advanced functions and equations, and data analysis.
11112	ALGEBRA 1 PLUS	YEAR	None	This course is the foundation for all other high school math courses. Algebra 1 Plus covers topics including but not limited to: linear relationships, exponential and quadratic relationships, advanced functions and equations, and data analysis. This course covers the same curriculum as the Standard Algebra 1 course with a greater emphasis on quadratic functions and equations, radical functions, rational functions, and real-life applications.
11210	GEOMETRY	YEAR	Algebra 1	The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. Geometry covers topics, including, but not limited to: geometric structure, congruence, similarity, and measurement.
11212	GEOMETRY PLUS	YEAR	Algebra 1	Specific content to be mastered includes angles, segments, parallel and perpendicular lines, triangle relationships, congruency, quadrilaterals, similarity, surface area, volume and circles. As always, the focus is on the student's continuous development of analytical and critical thinking, this time under the guise of logical and spatial reasoning. This course will build upon Algebra 1 curriculum and is essential to further instruction in Algebra 2, Pre-Calculus and beyond. This course covers the same curriculum as Geometry, with a greater emphasis on logic and proof.
11222	HONORS GEOMETRY	YEAR	Algebra 1 and Department Approval	The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. The topics covered in this course include all of those listed in Geometry and Geometry Plus. Students are expected to synthesize and apply the material beyond examples discussed in class.
11310	ALGEBRA 2	YEAR	Geometry	The purpose of this course is to continue the study of algebra and to provide the foundation for applying algebraic skills to other mathematical and scientific fields. Algebra 2 covers topics including but not limited to: extension of the properties of the real number system, linear and quadratic relations and inequalities, polynomial, radical and inverse functions, matrices and determinants, complex numbers, logarithmic and exponential functions, and rational functions.
11312	ALGEBRA 2 PLUS	YEAR	Geometry	The purpose of this course is to continue the study of Algebra and to provide the foundation for applying algebraic skills to other mathematical and scientific fields. Algebra 2 Plus covers topics, including but not limited to: extension of the properties of the real number system, linear and quadratic relations and inequalities, polynomial, radical and inverse functions, matrices and determinants, complex numbers, logarithmic and exponential functions; and rational functions.

				Algebra 2 Plus is intended as one option to the third course in the traditional Algebra 1 – Geometry – Algebra 2 high school sequence. Successful completion of this course will satisfy the graduation requirement for Algebra 2. This course will build upon your Algebra 1 and Geometry curriculum and is essential to your further instruction for higher-level mathematics. This course covers the same curriculum as Algebra 2, with a greater emphasis on the depth of the questions asked. As always, the focus is on the student's continuous development of analytical and critical thinking.
11322	HONORS ALGEBRA 2	YEAR	Minimum of a B in Honors Geometry and Department Approval	The purpose of this course is to continue the study of algebra and to provide the foundation for applying algebraic skills to other mathematical and scientific fields. This course includes all of those topics listed in Algebra 2 Plus as well as trigonometric functions, formulas, graphs, and identities. The course studies these topics at a greater depth than Algebra 2 Plus. Additionally, students are expected to synthesize and apply the material beyond examples discussed in class.
11351	SELECTED TOPICS IN MATHEMATICS	SEM	Algebra 2	The purpose of this course is to build on and strengthen student understanding of topics studied in previous math classes. Topics include standardized test preparation, parent functions and their transformations, statistics, and quadratic and polynomial functions.
11352	TRIGONOMETRY	SEM	Personal Finance or Selected Topics in Mathematics	This course will be devoted to an introduction to Trigonometry where students will study relations, functions and their graphs, right triangle trigonometry, trigonometric identities, polar coordinates, and complex numbers. Students will use graphing calculators in activities that are appropriate to the topics being studied.
11423	PERSONAL FINANCE	SEM	Open to Seniors Only	Personal Finance will be reserved for seniors. The course will be comprised of financial planning, investing, creating a budget, and understanding financial vocabulary and the world of banking, credit, and taxes. Additionally, students in this course will read the book <i>Richest Man in Babylon</i> .
11413	FUNCTIONS, STATISTICS, AND TRIGONOMETRY	YEAR	Algebra 2	This course is a study of the theory and applications of polynomials, trigonometric identities, vectors, statistics; and rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Graphing calculators will be used extensively in this course. The successful student in this course will be well prepared for more advanced topics.
11422	HONORS PRE-CALCULUS	YEAR	Minimum of a B in Honors Algebra 2 and Department Approval	The purpose of this course is to prepare students for a Calculus course. The course includes all of the topics listed in Functions, Statistics and Trigonometry, as well as matrices, polar coordinates, analytical Geometry and discrete math. Students are expected to synthesize and apply the material beyond examples discussed in class.
11452	PROBABILITY & STATISTICS	SEM	FST	This course provides an elementary introduction to probability and statistics with applications. Topics include basic probability models, random variables, discrete and continuous probability distributions, statistical estimation and testing, confidence intervals, and an introduction to linear regression.
11462	HONORS PROBABILITY AND STATISTICS	SEM	Honors Pre-Calculus and Department Approval	In this course students explore the binomial distribution, the normal distribution, confidence intervals and hypothesis testing, t-distribution, chi-square distribution, correlation, regression and multiple regression. Students will learn how to calculate confidence intervals and employ hypothesis testing. This course will make

				extensive use of graphing calculators and Excel spreadsheets. Students are expected to synthesize and apply the material beyond examples discussed in class.
11510	INTRO TO CALCULUS	SEM	FST	This course is designed to introduce students to fundamental calculus procedures and to prepare them for a rigorous college level course in calculus.
11506	APPLICATIONS OF CALCULUS: BUSINESS	SEM	Intro to Calculus	This course is intended for those studying business, economics, or other related business fields. The following topics are presented with applications in the business world: functions, graphs, limits, exponential and logarithmic functions, differentiation, integration, partial derivatives, and optimization. Topics also include total cost, variable cost, average cost, marginal cost, total revenue, marginal revenue, and average revenue.
11525	HONORS CALCULUS A	SEM	Honors Pre-Calculus and Department Approval	Students will learn to solve problems algebraically, numerically, and graphically. Students are expected to synthesize and apply the material beyond examples discussed in class. Students will study the following topics: continuity and limits, differentiation techniques and applications including implicit and logarithmic differentiation, exponential and logarithmic functions, simple differential equations, and definite and indefinite integrals. Graphing calculators will be used extensively in this course.
11526	HONORS SEMINAR CALCULUS B	SEM	Minimum of a B in Honors Calculus A and Department Approval	This course is a continuation of Honors Calculus A. Students will further their study of definite and indefinite integrals; additional topics include integration techniques and applications, the calculus of parametric, vector, and polar functions, sequences, and series, including Taylor and MacLaurin series. Graphing calculators will be used extensively in this course.
11632	HONORS SEMINAR MULTIVARIABLE CALCULUS	YEAR	Honors Seminar Calculus B	This is the third class in the Calculus sequence: the calculus of the 3-D world. Typically taken by anyone who is interested in the physical sciences or engineering—though anyone who is intellectually adventuresome and has met the prerequisites is more than welcome. Topics covered include differential and integral calculus of functions of two or three variables, partial derivatives, multiple integrals, Green's, Stokes's, and Divergence Theorems, calculus of vectors and paths in two and three dimensions. The course will conclude with an introduction to first and second order differential equations.
11732	HONORS SEMINAR DIFFERENTIAL EQUATIONS	YEAR	Honors Seminar Multivariable Calculus	Honors Seminar Multivariable Calculus The culminating math experience for any STEM inclined student. This course continues the journey through Calculus and takes it to a whole new level. In short, differential equations are the study of equations involving rates (derivatives); Linear Algebra is the study of linear systems and vector spaces. Combining these courses will allow us to study systems of differential equations. This course will cover first-order differential equations, linear systems and matrices, vector spaces, higher order differential equations, eigenvectors, linear systems of differential equations, and Laplace Transforms. The emphasis is on application; as such, graphical interpretation and engineering application will be the focus and not the theory. This course is especially applicable to anyone who is seriously considering math, physics or engineering as a career choice.
11471	HONORS SABERMETRICS	SEM	Probability and Statistics, one	In this course students will explore the statistics behind baseball. Students will use "Sabermetrics" designed by Bill James. These

			semester of Calculus (any level), and Instructor Approval	theories include, but are not limited to: base runs (BsR), batting average on balls in play (BABIP), defense independent pitching statistics (DIPS), on-base plus slugging (OPS), player empirical comparison and optimization test algorithm (PECOTA), peripheral ERA (PERA), super linear weights, value over replacement player (VOPR), WHIP, wins above replacement (WAR). Students will use Excel spreadsheets to calculate the formulas and interpret the results. Students will collect live data from Spring Training games as well as multiple MLB sites.
12113	HONORS COMPUTER SCIENCE 1	YEAR	Must have completed Honors Algebra 1, Honors Geometry and concurrently taking Honors Algebra 2 or higher	Computer Science 1 Honors focuses on developing reasoning skills and algorithmic thinking. Python, a programming language renowned for its simplicity and ease of use, is taught to develop student competency in software development. Topics such as simple data types and structures (booleans, integers, floats, strings, lists, and tuples), loops, function development, control statements, and recursion will be taught. Computer Science I is a strong introduction to the computing science field with a particular emphasis on software development.
12220	HONORS COMPUTER SCIENCE 2	YEAR	Honors Computer Science 1	Computer Science 2 Honors is a course similar in structure to Computer Science 1 Honors in so far as a subset of similar topics are taught (loops, functions/methods, control statements, recursion). The major difference, though, is that the class is taught in the Java programming language. Java, a purely object-oriented language, requires the teaching of object-oriented topics such as Java class design, object references, polymorphism, the substitution principle, inheritance, and interfaces. Java is an industry standard, and thus this class provides a solid exposure to college-level concepts.
12330	HONORS WEB APPLICATION PROGRAMMING	SEM	Honors Computer Science 2	Students will learn how to create fully functioning web applications using a variety of programming languages. Languages taught in this course include server-side languages such as PHP, client-side languages such as JavaScript, languages for database information retrieval such as SQL/MySQL, and markup languages such as HTML and CSS.
12331	HONORS UNITY GAME DEVELOPMENT IN C#	SEM	Honors Computer Science 2	Students will learn how to create two-dimensional and three-dimensional video games using the Unity Game Development engine. During this time, students will develop proficiency in the C# programming language, as well as learn game physics, and the basics of user interface design.
11466	HONORS SEMINAR ARTIFICIAL INTELLIGENCE AND COMPUTATIONAL MODELING 1	SEM	Intro to Calc or Calculus A	This project-based course will allow students to explore the fundamentals of modeling real-world scenarios using technology, programming and mathematics. There will be an emphasis on differential and integral calculus applications. Sample explorations may include modeling the Battle of Trafalgar to optimize the outcome; modeling a bungee jump physically, with technology, and with differential equations; and modeling the effects of caffeine on a tired student.

11467	HONORS SEMINAR ARTIFICIAL INTELLIGENCE AND COMPUTATIONAL MODELING 2	SEM	Hon Sem AI & Computational Modeling 1	Extending the first semester experience, Honors Seminar mathematics II: Artificial Intelligence will focus on modeling contemporary mathematical issues. Students will learn and apply fundamental artificial intelligence and machine learning techniques including decision-making, classification and linear regression. Math topics including conflict models, game theory, and queueing theory will be explored as well. Students will engage in research-based mathematics; projects will apply content learned to an Oxbridge-specific modeling problem (for example, queueing theory applied to the lunch lines at Oxbridge).
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SCIENCE – PHYSICS

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
21112	PHYSICS	YEAR	None	The course is focused on physics concepts and methods. Students will be solving problems utilizing the processes of technicians, engineers, and scientists. The students test hypotheses, apply conceptual understanding, conduct experiments, design and modify models, test and assess improvements, and analyze results. The students utilize data acquisition and analysis skills to formulate decisions and draw conclusions. The physics program employs a project-based inquiry approach to learning the concepts and applications of physics.
21122	HONORS PHYSICS	YEAR	Concurrently taking Honors Geometry, Honors Algebra 2 or higher-level mathematics course.	Honors Physics is a course designed to prepare students for advanced studies in the sciences in a career-related field. A general outline of the topics includes mechanics (kinematics & dynamics), harmonic motion, waves, optics, sound, electricity, and magnetism. Experimental processes will be examined in a more detailed manner. Honors Physics utilizes mathematics, including Algebra II and Trigonometry, on a regular basis and students selecting this course of study must be proficient in advanced mathematics.
21322	HONORS ADVANCED PHYSICS	YEAR	Concurrently with FST or higher-level mathematics course	This course will explore Newton's laws, conservation laws, applications of Newtonian mechanics, electrostatics, electricity, magnetism, electromagnetism, optics, waves, heat, thermodynamics, and aspects of modern physics. Successful completion of this course provides a solid foundation for any student considering physics, engineering, or any other science-based STEM disciplines.
21432	HONORS SEMINAR IN PHYSICS - MECHANICS	YEAR	Honors Physics, Calculus, and Instructor Approval	The curriculum has been developed to cover the material of an introductory college physics course. The study of mechanics includes the description of motion, the analysis of motion using Newton's laws, and the application of the three major conservation laws to a wide range of systems. Familiarity with differential calculus is assumed, and all the topics studied will make use of this level of math. Calculus is embedded in the second semester topics.
21532	HONORS SEMINAR IN PHYSICS- ELECTRICITY & MAGNETISM	YEAR	Honors Physics, Honors Seminar in Physics Mechanics, Calculus, and Instructor Approval	We continue our study in physics, this time with a focus on Electromagnetism. Topics to be covered include Coulomb's Law, electrostatics, Gauss's Law, electric potential and capacitance, DC circuit analysis, magnetic fields and induction, and AC circuits analysis. Electromagnetism plays a key role in our society and technology historically, currently, and in our future. Successful

				completion of this course provides a solid foundation for anyone considering physics, engineering, or any other physical science-based STEM discipline for their future endeavors.
24241	MATERIAL SCIENCE ENGINEERING	YEAR	None	This course will focus on engineering basics, metals, polymers, ceramics, composites, and smart materials. Students will learn how to modify materials to change their characteristics, learn how to characterize materials and perform tests to access the use of materials to suit specific purposes, such as applying your knowledge to making a skateboard or new material for a heart valve.
24251	AVIATION 101	SEM	None	This is the first of a six-semester elective program in which students will be introduced to aviation, aeronautical, and aerospace science. Taught as a project-based class, this introductory course will study the history of flight, physics of flight, aircraft systems, engines, instruments, air traffic control procedures, and weather. Included in the course are several field trips to local airports and IFLY along with guest lessons from local pilots and aeronautics engineers. Students will have the opportunity to apply their knowledge through approximately 5 hours in a full-motion Cessna 172 flight simulator.
24252	AVIATION 201	SEM	Aviation 101	This course is the second in a six-semester elective series. In this project-based course, students will study the history of the space program, satellites, rocketry, human physiology and space flight, long term space projects such as the Mars mission, ISS, and a possible moon base. We will learn about careers in this industry and possibly take a trip to the Kennedy Space Center. Students will continue their flight training in the flight simulator over the semester.
24253	AVIATION 301	SEM	Aviation 101 & 201	The third semester course in the series, Aviation 301 will cover the physics of flight to a much deeper level than Aviation 101 and 201, using mathematical formulas to determine lift, thrust, drag coefficients, and surface area to weight ratios. We will begin the process by developing engineering skills through short-term projects and experiments. The focus is to develop the skills of would-be pilots and engineers. Topics such as electrical systems, airport security and airport design, will also help students prepare for the next step in becoming a pilot.
24254	AVIATION 401	SEM	Aviation 101, 201, & 301	This course is the fourth in a series. In this course, the emphasis will be on aeronautical and aerospace engineering. Students will learn about keeping a professional engineering journal as they take on 4-5 design challenges. Examples of these design challenges include creating and testing airfoils using 3D printing and designing and building a working wind tunnel. Design challenges may change from year to year.
24256	AVIATION 501	SEM	Aviation 101, 201, 301, & 401 and Departmental Approval	This course is the fifth course in series. This course teaches a student the fundamentals of cross-country flying, which includes planning a route of flight, navigating a route of flight, interpreting aviation weather reports/maps, and preparing the aircraft's weight and balance. Students will obtain approximately 10 hours in a Cessna 172 full-motion simulator, and by the end of the course should be able to perform a solo flight in the simulator without instructor input. This course is by recommendation only.

24257	AVIATION 601	SEM	Aviation 101, 201, 301, 401, & 501 and Departmental Approval	This course is the sixth in a series. In this course, the emphasis will be on preparing the student to successfully complete the Private Pilot Written Exam. Students will utilize the flight simulator for approximately 10 hours to practice their private pilot maneuvers or be introduced to instrument flying, which is flying exclusively by the use of instruments and without the use of outside references to maintain aircraft control. This course is by recommendation only.
24201	ASTRONOMY-SOLAR SYSTEM	SEM	Corequisite Algebra 2	Astronomy, the study of the universe, was the first science, and it remains a cutting edge and viable research discipline even today. In the first semester, we study the solar system from the Sun to the Kuiper belt and everything in between Through it all we ask, where do we come from and where are we going?
24202	ASTRONOMY-EVOLUTION OF THE UNIVERSE	SEM	Corequisite Algebra 2	Astronomy, the study of the universe, was the first science, and it remains a cutting edge and viable research discipline even today. In the second semester, we look at cosmology, the study of the cosmos. We take a look at different types of galaxies and also black holes, pulsars, quasars, gamma ray bursts, and other denizens of the universe. Through it all we ask, where do we come from and where are we going?

SCIENCE – CHEMISTRY

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
22212	CHEMISTRY	YEAR	Physics	In this course, students use mathematical models to examine the basic principles of composition and interaction of matter: atomic structure, kinetic molecular theory, the mole, stoichiometry, reaction types, equilibrium, chemical kinetics, gas laws, and energy transfers. Teaching strategies focus on cumulative connection of concepts, quantitative analytical problem-solving skills, study skills, use of the scientific method, and proper experimental techniques. Experiments are conducted on a regular basis to reinforce the connections between the mathematical models and concepts presented in class. The chemistry program utilizes a project-based inquiry approach incorporating the latest teaching strategies.
22222	HONORS CHEMISTRY	YEAR	Concurrently taking Honors Algebra 2 or higher-level math course, Honors Physics, and Instructor Approval	Chemistry students examine the composition and interaction of matter and energy. Teaching strategies focus on the cumulative connection of concepts, quantitative analytical problem solving, inferential problem solving, use of the scientific method, and proper experimental techniques. Experiments are conducted on a regular basis to illustrate and reinforce the concepts and mathematics learned. The students in honors sections are exposed to more advanced topics, expected to learn at an increased pace, held to higher standards, and are given a greater degree of academic freedom and responsibility. Students will be well equipped with the skills and knowledge required to take Honors Seminar in Chemistry.

22433	HONORS SEMINAR IN CHEMISTRY: TOXICOLOGY	YEAR	Honors Chemistry, concurrently with Honors Biology, Algebra 2, and Instructor Approval	This is a college prep seminar course designed as an introduction to Toxicology, the science that studies the effects that chemicals can have on living systems. These systems include human beings, animals, plants, and ecosystems. Emphasis will be placed on developing an understanding of toxicological principles, and organic chemistry concepts, as well as decision-making and verbal and written communication skills as they relate to a professional career in the medical field.
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SCIENCE – BIOLOGY

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
23312	BIOLOGY	YEAR	Physics and Chemistry	The biology curriculum is based around the essential questions, “What is life?” and “How do living organisms function individually and within their respective environments?” Topics that are covered in this course include biochemistry, cell structure and function, cell energetics, genetics, protein synthesis, biotechnology, evolution, and biodiversity. Each unit is designed to cover a series of concepts and theories and is accompanied by hands-on lab work that aids students in seeing the material they are studying in action. Throughout the study of biology, students will acquire knowledge that will enable them to confront a variety of scientific questions that affect their daily lives and the future of the natural world.
23322	HONORS BIOLOGY	YEAR	Honors Physics, Honors Chemistry, Algebra 2 or higher-level math, and Instructor Approval	This course includes an in-depth study of a range of topics including the scientific method, biochemistry, cell structure and function, genetics, evolutionary processes, energetics, biotechnology, classification, and ecology. Laboratory investigations play an integral role in the course. Students will be introduced to experimental design with an emphasis on the acquisition of specific skills that include writing and speaking effectively, statistical analysis, and problem solving. The class will culminate with a student directed independent research project.
23432	HONORS SEMINAR IN BIOLOGY	YEAR	Honors Physics, Honors Chemistry, Honors Biology, Algebra 2 or higher-level math, and Instructor Approval	The Honors Seminar in Biology curriculum has been developed to cover the material of an introductory college biology course. Topics are covered in great depth, laboratory experiments are complex, and the time and effort required of students is significant. This course provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology.
24230	HONORS QUANTITATIVE AND QUALITATIVE RESEARCH: THEORY, DESIGN & PRACTICE	YEAR	Instructor Approval	The course is designed for original research that includes developing collaborations and internships with professionals, university professors, local laboratories, and appropriate stakeholders. Deliverables for this course include but are not limited to regional, state, national, and international science fair submissions, community outreach and education, a professional white paper, a presentation at a professional conference, and/or grant writing for further research. Computer programs applicable to research will be used to help create a visual depiction of data and results (i.e., geographic information systems (GIS), modeling programs, networking programs). Initial ideas are to be approved by the instructor, and external mentors chosen early in the process. Field work required.

23434	MARINE BIOLOGY	YEAR	Physics, Chemistry, and Concurrently taking Biology	Designed for a student who is interested in the marine environment, this course focuses on marine life and the issues surrounding it. It is a project-based class aimed at self-directed learning. Students need to be able to swim as we take several snorkeling trips to observe the environments first hand. These trips include seining with Florida Fish and Wildlife and FAU Pine Jog, snorkeling Blue Heron Bridge and the Florida Keys, and several others.
24245	ENVIRONMENTAL FIELD RESEARCH	SEM	Instructor Approval	What do tree frogs, whirligigs, rocks, fish, plants, weather, and humans have to do with the Everglades? Answers to this question and many more can be found as students leave school each week to explore the local parks, refuges, and preserves of South Florida. Throughout the semester, students perform hands-on field projects to collect data with university professors, US Fish and Wildlife, and FL Wildlife Conservation professionals. Students are encouraged to choose a topic of their own interest to explore as well.
24250	HONORS ANATOMY & PHYSIOLOGY	YEAR	B grade or higher in Science courses or Instructor Approval	Students who are curious about how their bodies function or are interested in a career in the medical field will enjoy this in-depth look at the structures and functions of the human body. Students will engage in experimentation, dissection, and research projects designed to enhance their understanding of the human condition. This course will challenge student's critical thinking skills as they develop a longstanding appreciation for the complexity and beauty of the human body.
24300	ARTIFICIAL INTELLIGENCE 1 APPLICATIONS, HISTORY & CURRENT ISSUES (HONORS AVAILABLE)	SEM	Open to Juniors and Seniors. Co-requisite: Algebra 2, Biology, US History	This course introduces the subject of Artificial Intelligence (AI) by studying real-world applications past, present, and future. It also addresses the fundamental social and technical issues raised by the existence and pursuit of AI by humanity. This course will treat the subject from a variety of viewpoints and methods, including historical survey and discussion of ethical implications both historical. and hypothetical. It will include some rudimentary programming and hands on technical projects. It is meant to provide exposure to the subject with less emphasis on math skills.
24301	ARTIFICIAL INTELLIGENCE 2 APPLICATIONS, HISTORY & CURRENT ISSUES (HONORS AVAILABLE)	SEM	AI 1	Extending the first semester experience, Artificial Intelligence 2 will broaden and deepen the treatment of select topics touched upon in the 1st semester and incorporate longer-term projects along with student research presentations. This course introduces the subject of Artificial Intelligence (AI) by studying real-world applications past, present, and future. It also addresses the fundamental social and technical issues raised by the existence and pursuit of AI by humanity. This course will treat the subject from a variety of viewpoints and methods, including historical survey and discussion of ethical implications both historical. and hypothetical. It will include some rudimentary programming and hands on technical projects. It is meant to provide exposure to the subject with less emphasis on math skills.

SOCIAL SCIENCE – HISTORY

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
40103	WORLD HISTORY	YEAR	Open to Freshmen	This course provides a look at the history of human experience from

				the Big Bang to the creation of a new globalized world of trade through the interdisciplinary application of project-based learning. Assignments provide a breadth of experience in acquiring an understanding and deeper appreciation of the world's many cultures. Students creatively reintegrate this knowledge through hands on projects including student-driven research, collaboration, technology. A variety of assessments are given to test the students' knowledge of content.
40223	HONORS WORLD HISTORY	YEAR	Open to Freshmen and Department Approval	Beginning in present day and working backwards to the time of the first civilizations, students engage in an innovative "CSI" style study of world history, paying attention to the historical development of political, economic, cultural, and societal regions of the world. The course examines how our own cultural /geographic biases have an impact on how we as view the world historically. In particular students will objectively make comparisons, examining continuity's in the rise and fall of empires, trading systems, and gender issues through history to make better sense of the world in which we live today. The use of primary sources, maps, and analytical essays reinforces a more complete perspective of the modern world.
40104	HONORS SEMINAR WORLD HISTORY	YEAR	For Freshmen ONLY. Placement Exam and Department Approval	This thematic concentration reflects the burgeoning cultural history of the last six thousand years and encompasses the study of the history of ideas, popular and elite cultures, material culture, work, leisure and consumption, and the formation of religious, gender, national, ethnic, and racial identities. Students in this class will explore the history of culture and ideas, the modes of their transmission, and the nature of their reception. Students learn to engage in close readings of a wide variety of historical sources and to interpret written texts and manuscripts as well as objects, art, architecture, film, theater, literature, photographs, oral traditions, performances, ceremonies, and customs. These interpretations are then grounded as students contextualize the sources within their particular times, places, and historical trends. By focusing on themes as well as content, this class offers students a specialized, in-depth examination of the history of our world.
40312	U.S. HISTORY	YEAR	Open to Sophomores	United States History is a required class that is normally taken by students in 10th grade. The course covers our nation's journey from the arrival of the earliest immigrants through today. Course Objectives: 1) To promote a general understanding of the dominant patterns of American thought from colonial days to the present. 2) To consider specific broad problems manifested in the past. 3) To refine the student's critical thinking skills as the class studies specific historical problems by analyzing original documents, maps, and historical articles. 4) To develop analytical essay writing skills. 5) To develop the necessary skills for collaborative work on creative and innovative projects.
40322	HONORS U.S. HISTORY	YEAR	Open to Sophomores and Department Approval	This offering is for students who are ready to meet the demands of college-level work. This course emphasizes post-1750 history, The U.S. Constitution, and the American political system. Considerable emphasis is placed on analytical history essay writing skills and the factual knowledge necessary to deal critically with the problems that faced the country in the past. Students are expected to read the class text, as well as primary sources, then be able to apply that knowledge to answering analytical essays, document-based essays, and multiple-choice questions. This course emphasizes the development of the necessary skills for collaborative work on creative and innovative projects. This course fulfills the United States History

				requirement for qualified 10th grade students.
40323	HONORS SEMINAR U.S. HISTORY	YEAR	Open to Sophomores and Department Approval	This course explores fundamental questions about the history of the United States at the very highest academic level. How is American identity defined, maintained, and redefined? How do patterns of individualism and community diverge and converge? How have political systems, social structures, culture, and the economy in the United States evolved? To answer these and other questions, we will study primary sources and develop ideas both through discussion and formal and informal written responses. This is a university-level course and as such, the readings, conversations, and essays will be rigorous and briskly paced. By the end of the year, students will be able to articulate sophisticated, nuanced positions on American history from the Colonial Era to the Cold War.
40633	HONORS SEMINAR HISTORY AND PHILOSOPHY OF SCIENCE	YEAR	Open to Juniors and Seniors	Philosophy of Science introduces students in their junior or senior years to the nature of scientific thinking and the processes that define the discipline. In order to enrich the students' understanding of science (and its paradigm transformations), we will conduct the study of science from a philosophical perspective. Interpersonal communication in the forms of reading, writing and classroom discussions lie at the heart of this course. In the second semester, History of Science examines the development of scientific thought in Western Civilization through the lenses of scientists, engineers, medical professionals and mathematicians. The course will cover four critical periods: ancient science, Islamic and medieval science, Renaissance and Reformation science, and, finally, 19 th and 20 th century science. When covering these time periods, we will study the revolutions that marked the transition from one era to the next. The course will conclude with a close look at how contemporary science impacts our society. The ultimate objective of this course is to develop a full and rich interpretation of the role science played in Western culture and to put into perspective how technology became so integrated into our everyday lives.
40630	HONORS SEMINAR IN EUROPEAN HISTORY	YEAR	Open to Juniors and Seniors with Instructor Approval	Explore the events and movements that shaped the development of Western Civilization/European History in its intellectual, cultural, political, economic, and social dimensions. Develop the ability to analyze, synthesize, and extrapolate historical evidence. This course is writing intensive; essays and a research paper will be required.
40634	HONORS SEMINAR REVOLUTION	YEAR	Open to Juniors and Seniors Only with Instructor Approval	This course investigates revolutions as engines of historical change. It expands student understandings of revolution from the purely political to the social, cultural, and economic as well. We will explore fundamental questions about the causes and nature of revolutions by looking at how people overthrow their rulers, social norms, and cultural traditions to establish new governments, institutions, and traditions. This course examines how revolutionaries have attempted to establish their ideals and realize their goals and asks whether radical upheavals require bloodshed, violence, or even terror. It seeks to explain why some revolutions succeed and others fail.
40608	ISLAND HISTORY	SEM	None	In this class, students will explore the social, political, environmental, cultural and economic development of island societies and consider how island history has impacted continental events. From the most distant and isolated places on the globe to some of the most

				interconnected and crucial locations on the planet, islands offer a fascinating opportunity to explore culture, technology, archeological methodology, sociology, and exploration in the way that is frequently absent from core history classes. This class will cover culture and/or important historical events from the following locations: The Caribbean, Easter Island, the Hawaiian Islands, Polynesia/New Zealand, the Falkland Islands, Poveglia, Alcatraz, Bermuda and North Sentinel.
40609	HISTORY OF SOUTH AFRICA	SEM	None	The class will then consider Portuguese, Dutch & English colonization's impact on indigenous peoples as well as the Zulu and Boer Wars. Significant attention will be given to Apartheid's systemized segregation and human rights violations. Student will consider international reactions and resistance to apartheid, building to the dismantling of the Apartheid system under the leadership of Nelson Mandela. The class will conclude with an analysis of the post-apartheid period and reconciliation efforts.

SOCIAL SCIENCE – GOVERNMENT, ECONOMICS, AND PSYCHOLOGY

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
40411	U.S. GOVERNMENT	SEM	Mandatory for Juniors and Transfer Students who have not satisfied the requirement.	This one-semester introductory course examines the basic principles, democratic processes, and institutions of American government. The topics covered range from theories of individual rights and the federal government's management of the economy to the local government of Palm Beach County. Students discuss, debate, and analyze contemporary political issues. Skills emphasized include writing, research, debate, discussion and group work.
40421	HONORS U.S. GOVERNMENT	SEM	Mandatory for Juniors and Transfer Students who have not satisfied the requirement, with Department Approval.	This one-semester course is an advanced introduction to the philosophical underpinnings, institutional structures, and processes that comprise our democratic government. The course revolves around two fundamental questions: What does it mean to live under a democratic system of government? What obligations and opportunities do citizens have for civic engagement? Skills emphasized include analytical writing, research, debate, dialogue, and group work.
40511	ECONOMICS	SEM	Mandatory for Juniors and Transfer Students who have not satisfied the requirement.	Students will explore the history of economics and learn how to think like an economist. Students will also learn about scarcity and how the study of scarce resources led to the disciplines of microeconomics and macroeconomics as well as current developments within the discipline. An emphasis will also be placed on the role of the individual in the global economy, with a concentration on contemporary economic issues.
40512	HONORS ECONOMICS	SEM	Mandatory for Juniors and Transfer Students who have not satisfied the requirement, with Department Approval.	Students will explore the history of economics and learn how to think like an economist. This course also includes instruction in Microeconomics, Macroeconomics and current theories. In addition to the topics studied in Economics, students in the honors course will also read a current economics book, complete additional projects, and engage in higher-level economic graphing analysis.

40520	HONORS SEMINAR MACRO ECONOMICS	SEM	Open to Juniors and Seniors, Economics, concurrent with Honors Pre-Calculus	Macroeconomics is the study of the whole economy. Typically, macroeconomics attempts to explain the relationships between economic growth, unemployment, inflation, interest rates, trade, and other economic factors. Students will study the business cycle, aggregate demand and supply, fiscal policy, and monetarism.
40523	HONORS SEMINAR MICRO ECONOMICS	SEM	Open to Juniors and Seniors, Economics, concurrent with Honors Pre-Calculus	Microeconomics is the study of individuals and firms. Typically, microeconomics attempts to explain the relationships between scarcity and choice, individual actions, business decision making, and the production process and marginal analysis. Students will study optimality, irrationality, externalities, markets, and utility theory of choice.
40120	PSYCHOLOGY	SEM	Open to Sophomores, Juniors, and Seniors	A study of human behavior and mental processes from diverse perspectives. Topics include psychology as a science, social psychology, biological bases of behavior, sensation and perception, and states of consciousness. Students will participate in and analyze research studies illustrating core content and processes in various fields of psychology and engage in individual research of psychological topics.
40121	SOCIAL PSYCHOLOGY	SEM	Psychology	Social psychology focuses on the perceptions, thoughts, feelings, and behaviors of individuals and groups within a social context. Students will study the perspectives, research methods, and empirical findings of social psychology. Topics to be covered include impression formation, conformity, prosocial behavior, interpersonal attraction, persuasion, stereotyping, and prejudice.
40126	HONORS SEMINAR ABNORMAL PSYCHOLOGY 1	SEM	Open to Juniors and Seniors only who have taken Psychology and Social Psychology with instructor approval	This course introduces students to fundamental concepts, scientific principles, and history underlying abnormal human behavior. The course will be structured to facilitate learning about psychopathological behavior, which will be explored from various theoretical frameworks, including psychological, biological, and sociocultural perspectives. Psychiatric disorders will be discussed according to DSM-V diagnostic criteria with special attention paid to etiological considerations and disorder-specific descriptions. Specific disorders to be reviewed include mood, anxiety, depression, posttraumatic stress disorder, and suicide. Current empirically based treatments for mental disorders will also be reviewed.
40127	HONORS SEMINAR ABNORMAL PSYCHOLOGY 2	SEM	Honors Seminar Abnormal Psychology 1	This course is a continuation of the fundamental concepts and scientific principles underlying abnormal human behavior. Psychiatric disorders will be discussed according to DSM-V diagnostic criteria. Specific disorders to be reviewed include eating, body, schizophrenia, sexual, personality, aging, phobia, and child spectrum disorders (e.g. attention deficit/hyperactivity disorder, conduct disorder, etc.). Current empirically based treatments for mental disorders will also be reviewed.
40210	ENTREPRENEURS HIP 1	SEM	None	The first class will concentrate on the philosophy of entrepreneurship. We will ask questions such as: What is entrepreneurship, and can it be taught? From here we will go through the process of creating a business and consider ways to grow a successful business. The goal of the class is not to turn every student into a small business owner, but instead to encourage an entrepreneurial way of thinking as they make everyday decisions. We want the students to leave the class knowing two things: "Knowledge is power, and failure is part of the process."

40211	ENTREPRENEURS HIP 2- ENTREPRENEURIA L FINANCE	SEM	Entrepreneurship	The second Entrepreneurship class is entitled Entrepreneurial Finance. This course will be reserved for the more serious students. We will cover the time value of money using the financial calculator HP12c, the process of making a good business plan, and understanding how to read and understand financial statements.
40209	FINANCIAL MARKETS	SEM	Elective for Juniors/Seniors and transfer students who have satisfied their economics requirement, with department approval	This course provides a foundation for learning about financial markets. Students will explore the fundamentals of bonds, stocks, options, and futures. A particular emphasis will be placed on how financial markets work and their impact on the economy. Students will also learn about fundamental and technical analysis. In this interactive course, students will manage a mock portfolio with several financial instruments to gain first-hand experience with investing.
40531	CONTEMPORARY GLOBAL ISSUES	SEM	Open to Juniors and Seniors	The Contemporary Global Issues course introduces students to the myriad of issues faced in the world today. The purpose of this course is to gain broad-based exposure to some of the cultural, political and economic issues related to and arising from the processes of globalization. Students will choose and explore issues such as economic systems, human rights, world health, regional conflicts, environmental issues, nuclear proliferation and/or economic disparity. They will also be required to give oral and PowerPoint/ Keynote presentations. Students will evaluate the issues and propose solutions from a variety of perspectives.
40532	CONTEMPORARY AMERICAN ISSUES	SEM	Open to Juniors and Seniors	The Contemporary American Issues course introduces students to the myriad of issues confronting the United States today. Emphasis will be placed upon America as a global, multi-cultural and dynamic society in the 21st century, witnessing and being affected by changes locally, nationally, and internationally. Students will choose and explore one or more of the following issues: economic disparity, healthcare, immigration issues, and inequalities in the justice system, First and Second Amendment rights, and/or environmental issues. We will also investigate important issues as they arise. Students are required to participate in class, lead discussions, and write essays and responses to news articles. They will also be required to give oral and PowerPoint/ Keynote presentations.
40601	COMPARATIVE RELIGIONS	SEM	Open to Sophomores, Juniors, and Seniors	Religion has impacted human thought, the arts, and literature. This course provides an introduction to the comparative study of the world's great religions. Students in this course will investigate the beliefs, practices, institutions, and cultural expressions of several world religions, and the relationship between religion, politics, and social conflict across and between religious traditions. Students will gain an understanding of the nature of religion in an academic sense, as well as its meaning for believers and practitioners.
40604	HONORS SEMINAR COMPARATIVE GOVERNMENT AND POLITICS	YEAR	Open to Juniors and Seniors with Instructor Approval	An introduction to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course illustrates the rich diversity of political life, shows available institutional alternatives, explains differences in processes and policy outcomes, and communicates to students the importance of global political and economic changes. Six countries form the core of the Comparative Government and Politics course: China, Great Britain, Iran, Mexico, Nigeria, and Russia. By using these six

				countries, the course can move the discussion of concepts from abstract definition to concrete example, noting that not all concepts will be equally useful in all country settings.
40605	ETHICS	SEM	Open to Juniors and Seniors with Instructor Approval	Introduction to Ethics is a one-semester course offered in the fall semester. The course is designed to introduce students to principled reasoning, explain the traditional ethical systems of our culture, and examine some contemporary ethical issues. The class will be conducted as a community of inquiry. Reading, writing and dialogue are the essential skills evaluated in this course. Enrollment is limited to juniors and seniors.
40606	HONORS MODEL U.N.	YEAR	Open to all	Students will actively research, debate, problem-solve, and write position papers, working papers, and resolutions on world issues. Students will take on the role of various countries in committees, simulating the activities of the real United Nations. They will learn parliamentary procedure and conduct themselves as they would on the UN floor. Students will attend a minimum of 2 Model UN conferences during the course of the year where they will compete with other schools in and around the Florida area.

HEALTH AND WELLNESS COURSES

ID	NAME	TERM	PREREQUISITES	DESCRIPTION
90500	LIFETIME HEALTH AND WELLNESS	YEAR	Freshman year	This required course will enable students to obtain the knowledge and skills necessary to develop and maintain a health-enhancing level of fitness and to increase physical competence, self-esteem, and the motivation to pursue lifelong physical activity and develop lifelong positive attitudes related to personal health including mental, emotional, and social health. Health topics include: personal health, stress management, nutrition, prevention of alcohol, drug and tobacco use, safety and injury prevention, and human sexuality. The first weeks of the curriculum will focus on the transition to high school with an emphasis on developing effective study skills, computer literacy, organizational strategies, and time management.
90014	LIFETIME SPORTS AND FITNESS	SEM	Open to Sophomores, Juniors, and Seniors	This course is designed to facilitate students in improving their quality of life through participation in lifetime sports and fitness activities. Activities will enable students to develop the skills necessary to maintain a healthy, active adult lifestyle. A few of the sports that will be included are disc golf, tennis, and ultimate Frisbee. The fitness activities will include yoga, walking courses, Tabata, and cardio circuits. Students will also have the opportunity to use digital apps to track their fitness progress and will begin to learn basic concepts of developing personal fitness habits.

90011	STRENGTH AND CONDITIONING 1	SEM	Open to Sophomores, Juniors, and Seniors	Strength and Conditioning 1 is a basic level course for students who are new to the weight room, cardio equipment and conditioning programs. This class is designed to familiarize students with the weight room and develop a fundamental understanding of strength and conditioning concepts. Multiple forms of resistance exercise including free weights, weight machines, resistance bands, and conditioning/agility activities will be incorporated to promote improvement of muscular strength, cardiovascular endurance, flexibility, agility, speed, balance, and core strength. Students will be instructed on proper lifting technique, basic strength and conditioning principles, nutritional considerations, and appropriate hydration.
90012	STRENGTH AND CONDITIONING 2	SEM	Open to Sophomores, Juniors, and Seniors	Strength and Conditioning 2 is designed to provide students with educational instruction to promote high-quality workouts while minimizing the risk of injury. Building upon concepts learned in strength and conditioning 1, students will use multiple forms of resistance exercise, conditioning and agility activities to promote improvement of muscular strength, cardiovascular endurance, flexibility, agility, speed, balance, and core strength.
90504	SPORTS MEDICINE 1	SEM FALL ONLY	Open to Sophomores, Juniors, and Seniors	This course is designed for students interested in sports medicine-related fields. Sports Medicine 1 is an introductory course that provides an overview of various aspects of the sports medicine field. This course will provide basic knowledge of sports medicine professions, injury prevention, anatomy and exercise physiology, and current issues related to sports related injury. The purpose of the First Aid portion of this course is to provide training in the skills necessary to make appropriate decisions regarding first aid care and how to provide care for injuries or sudden illness until professional medical help arrives. This course will also provide instruction for breathing emergencies, performing adult and pediatric CPR, and using an automated external defibrillator (AED) for victims of sudden cardiac arrest. At the completion of this course, students will receive certification by the American Heart Association that is valid for two years.
90306	SPORTS MEDICINE 2 – Will not be running for 2019-2020	SEM SPRING ONLY	Sport Medicine 1	Sports Medicine 2 is an advanced course that provides detailed information regarding anatomy, kinesiology, etiology of injury specific to body parts, biomechanics, and injury rehabilitation. The material builds on the information taught in Sports Medicine 1 and provides further knowledge on topics regarding injury assessment, injury pathology and clinical practices. Sports Medicine 2 is designed to be a hands-on course with mandatory volunteer hours and internship work in the Oxbridge Health and Wellness clinic, as well as with one of the Oxbridge athletic trainers during practices and games.
90400	YOGA	SEM	Open to Sophomores, Juniors, and Seniors	This course is designed to introduce students safely to the benefits of yoga through postures, breathing techniques, and relaxation methods appropriate for all fitness levels. The emphasis of the class will be on asanas (poses) and vinyasa (flow) for increased flexibility and energy, improved health, and stress reduction. Students will be given the tools to develop a yoga practice for lifelong physical and mental well-being.

90010	ZUMBA	SEM	Open to Sophomores, Juniors, and Seniors	Zumba is an interval style cardio-based workout with components of resistance training. It incorporates Latin and International music and dance moves to integrate some of the basic principles of aerobic, interval, and resistance training to maximize caloric output, cardiovascular benefits, and total body toning to achieve fitness goals. It includes easy to follow dance and fitness moves that students of all fitness levels and non-dancers can enjoy and benefit from.
90013	INTRODUCTION TO SWIMMING	SEM FALL ONLY	Open to Sophomores, Juniors, and Seniors	This course is designed to teach students to be safe when participating in water activities; to instruct on proper swimming techniques for each competitive stroke and to engage the students in swimming workouts to improve physical fitness. The course will incorporate both classroom work and clinical application involving aquatic fitness.