



# COURSE CATALOG

## 2019-2020

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## Mission Statement

The mission of Samuel Wolfson School for Advanced Studies and Leadership is to foster academic excellence through comprehensive curricula and rigorous studies.

**Our Beliefs Include:**

- All students can learn and student learning is the main priority of the school.
- Students' learning needs are the primary focus of all decision affecting the work of the school.
- Students learn in different ways and should be provided with a variety of opportunities for more meaningful applications of what they have learned.
- Students demonstrate their understanding of essential knowledge and skills by being actively involved in solving problems and producing quality work.
- Assessments of student learning provide students with a variety of opportunities to demonstrate their achievement
- Student's self-esteem is enhanced by positive relationships and mutual respect among and between students and staff.
- A safe environment promotes student learning.
- Cultural diversity increases student's understanding and awareness of different people and cultures.
- Challenging expectations increase individual student performance.
- Teachers, administrators, parents, and the community share the responsibility for advancing the school's mission.

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## Administration and School Counseling Department

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### Administration

Christopher Begley, Principal  
Julie Humphreys, Assistant Principal

### IB Coordinator and School Counselors

Brandi Benga, IB Program Coordinator  
Jana Jolly, 9<sup>th</sup>-10<sup>th</sup>  
Rhonda Harrigan, 11<sup>th</sup>-12<sup>th</sup>

**VISUAL ARTS**

**All art classes require an art cost of \$35.00 to \$50.00 to cover the cost of materials used in take home art assignments and projects. This cost will cover the entire year long course.**

**PRE-IB ART 1**

1 year, 1 credit

**Prerequisite:**

Students demonstrate proficiency in the conceptual development of content in drawing, painting, printmaking, collage, and/or design to create self-directed or collaborative 2-D artwork suitable for inclusion in a portfolio. Students produce works that show evidence of developing craftsmanship and quality in the composition. Through the critique process, students evaluate and respond to their own work and that of their peers. Through a focused investigation of traditional techniques, historical and cultural models, and individual expressive goals, students begin to develop a personal art style. This course incorporates hands-on activities and consumption of art materials. In addition, the purpose of this Pre-IB course is to prepare students for the International Baccalaureate Diploma Programme (DP).

**PRE-IB ART 2**

1 year, 1 credit

**Prerequisite:**

Students communicate a sense of 4-D, motion, and/or time, based on creative use of spatial relationships and innovative treatment of space and its components. Instruction may include, but is not limited to, content in green or industrial design, sculpture, ceramics, or building arts. Students address 4-D, the inter-relatedness of art and context, and may also include installation or collaborative works, virtual realities, light as a medium (i.e., natural, artificial, or reflective), or flexible, entered, or activated space. Other concepts for exploration include tension, compression or expansion, intrusions or extrusions, grouping, proximity, containment, closure, contradiction, and continuity. 3-D artists experiment with processes, techniques, and media, which may include, but are not limited to, casting and kiln-firing techniques, stone carving, mold making, or working with glass, cement, PVC piping, or structures scaled to human existence. Craftsmanship and quality are reflected in the surface and structural qualities of the completed art forms. Students in the 3-D art studio focus on use of safety procedures for process, media, and techniques. Student artists use an art criticism process to evaluate, explain, and measure artistic growth in personal or group works. This course incorporates hands-on activities and consumption of art materials. In addition, the purpose of this Pre-IB course is to prepare students for the International Baccalaureate Diploma Programme (DP).

**ADVANCED PLACEMENT STUDIO ART 2-**

1 year, 1 credit; grades 10-12

**Prerequisite: Portfolio I and Teacher Recommendation**

The course is for serious art students who need a collection of original, personal works in presentation form required for AP Art. During this course the student will work on the concentration section of their portfolio demonstrating “an in depth, personal commitment to a particular artistic concern.” Work should show a considerable investment in “time, effort, and thought.” Fifteen quality, completed works of art are required before the end of the year. This course is for the advanced art student who wishes to seek AP credit through submitting a portfolio of work for consideration by the College Board.

**ADVANCED PLACEMENT ART-DRAWING**

1 year, 1 credit; grades 10-12

**Prerequisite: Portfolio I and Teacher Recommendation**

The focus of this course is drawing/painting. This course is for serious art students who need a collection of original, personal works in presentation form, required for AP Art. In this course, the art student will work on the Concentration section of their portfolio demonstrating “an in-depth, personal commitment to a particular artistic concern.” Work should show a considerable investment in time, effort, and thought. Fifteen quality, completed works of art are required before the end of the year. This course is for the advanced art student who wishes to seek AP credit through the submission of a portfolio of work for consideration by the College Board.

**ADVANCED PLACEMENT STUDIO ART 3**

1 year, 1 credit; grades 10-12

**Prerequisite: Portfolio I with Portfolio II and Teacher Recommendation**

The course is intended to address a very broad interpretation of sculptural issues in three-dimensional (3-D) design. Such elements and concepts may be articulated through additive, subtractive, and/or fabrications processes. This course also requires independent research on topics of Art History. It is for the advanced art student who wishes to seek AP credit through submitting a portfolio of work for consideration by the College Board.

**IB VISUAL ART I**

1 year, 1 credit; grade 11

**Prerequisites: Drawing & Painting I, II and/or Sculpture I, II**

This course is offered as a 6<sup>th</sup> subject choice in the International Baccalaureate program. IB I Art is created to prepare students for the IB Assessment for their 12<sup>th</sup> grade year. In addition, IB Art I students make artwork that is influenced by personal and cultural contexts; become informed and critical observers and makers of visual culture and media; and develop skills techniques and processes in order to communicate concepts and ideas. Students begin to create a coherent body of 4-7 works that “demonstrates assured and sustained experimentation and technical competence” with a “highly appropriate materials and consistent intentions”, produce 9-18 screens of comparative

analysis based on consistent and appropriate in-depth research and development of own art making. Students will begin to maintain an Investigative Workbook (IWB) which will be used into their HL Art course.

## **IB VISUAL ARTS II—III**

1 year, 1 credit; grade 12

### **Prerequisite: IB Art I**

This course is offered as a 6<sup>th</sup> subject choice in the International Baccalaureate program. IB Art II & III are created to successfully prepare students for their IB Assessments.

In addition to the aims listed in the Pre IB and Art I courses, students continue to create a portfolio with a coherent body of 8 -11 works that “demonstrates assured and sustained experimentation and technical competence” with a “highly appropriate materials and consistent intentions”, produce 13-25 screens of comparative analysis based on consistent and appropriate in-depth research and development of own art making. Students continue to maintain an Investigative Workbook (IWB) documenting their critical investigation, technical skills and processes, in-depth research, and reflections of their art making. In addition, students learn about “curatorial practice” and assemble their body of works for an exhibition.

## **PERFORMING ARTS BAND**

A limited number of school instruments are available for rental. Most students need to supply their own instruments.

## **INSTRUMENT TECH 1**

Students must provide their own instrument.

1 semester, ½ credit; grades 9 –12

**Prerequisite:** Previous music/band experience at the middle school level/audition; performing arts for graduation; I must be paired with Instrumental Techniques II for 1 full credit.

Students in this entry-level class focus on the development of musical and technical skills on a specific instrument through etudes, scales, and selected music literature. Through problem solving, critical thinking, and reflection, students develop the physical and cognitive skills to be more disciplined performers. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. Participation in marching band is required for this course.

## **BAND I**

1 year, 1 credit; grades 9 –12

**Prerequisite:** Student must have experience playing an instrument. Students are obligated to participate in the marching band.

The purpose of this course is to provide fundamental instruction for students interested in learning a woodwind, brass, or percussion instrument. This course is designed for beginning band students and students who do not meet the minimum performance standards for marching band.

Advanced level band students may take this course as a band elective, with teacher recommendation, to learn a secondary instrument.

## **BAND II - IV**

1 year, 1 credit; grades 10-2

**Prerequisite: Previous band experience at the high school level and successful completion of audition with teacher.**

The purpose of this course is to foster internalization of independence in musicianship, performance techniques, and aesthetic awareness through the rehearsal and performance of varied band literature and chamber music. The student must be at a level to sight-read grade III music and perform grade IV.

## **MUSIC OF THE WORLD**

1 year, 1 credit; grades 9-12

**Prerequisite: None**

Students explore the musical traditions of 20th and 21st-century American and global communities around the world through study of current trends, focusing on the function of music within various cultures (ie: jazz, world drumming, mariachi, soul, gamelan, Bollywood, digital). Students examine and report on human activities involving music, technology– and culture– related influences on music, and the sounds and structures of music composition. Public performances may serve as a resource for specific instructional goals. Students may be required to attend one or more performances outside the school day to support, extend, and assess learning in the classroom.

## **MUSIC THEORY**

1 year, 1 credit; grades 10-12

**Prerequisite: None**

Previous experience in band, orchestra, chorus, or other musical groups is beneficial, but not essential for this course. The purpose of this course is to teach analysis and application of musical fundamentals and practices in various musical historical periods.

## **CHORUS**

**Please note sacred/religious musical pieces will be performed and studied in chorus courses.**

## **CHORUS I - IV**

1 year, 1 credit; grades 9-12

**Prerequisite: None**

The purpose of this course is to provide students with experiences in basic vocal production techniques. The content includes, but is not limited to; developing functional skills in

vocal tone production, choral performance techniques, sight singing and ear training, and music appreciation. These choruses are the prerequisites for Honors Chorus.

### VOCAL ENSEMBLE 1

1 year, 1 credit; grades 10-12

**Prerequisite:** Student must try out for the course.

The purpose of this course is to develop musicianship and performance skills as students study, rehearse, and perform high-quality ensemble literature in diverse styles. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

### VOCAL ENSEMBLE 2

1 year, 1 credit; grades 10-12

**Prerequisite:** Student must try out for the course.

The purpose of this course is to develop students with previous vocal ensemble experience. They will continue to build musicianship and performance skills through the study, rehearsal, and performance of high-quality ensemble literature in a variety of styles. Student musicians learn to self-assess and collaborate as they study relevant musical styles and time periods. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

### VOCAL ENSEMBLE 3

1 year, 1 credit; grades 10-12

**Prerequisite:** Student must try out for the course.

The purpose of this course is to allow students to continue to build musicianship and performance skills through the study, rehearsal, and performance of increasingly challenging, high-quality vocal ensemble literature. Student musicians strengthen their techniques, ensemble skills, music literacy, and analytical skills as they study relevant history, cultures, and music genres. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

### THEATER

1 year, 1 credit; grades 9-12

**Prerequisite:** None

This is a full-year introductory course for those with an interest in theater. Students will explore the connections between theatre arts and other disciplines. Course work includes: various elements of acting with emphasis on physical and vocal skills of an actor, theatre history, study of a minimum of three

plays, stage terminology, and a brief overview of stage conventions. This is an activity-based, academic course. This course is a prerequisite for Theater II and in most cases IB Theatre I.

### THEATER II

1 year, 1 credit; grades 10-12

**Prerequisite:** Theater I

Students continue application of acting techniques learned in Theater I through the development of short scenes and play analysis. Students will study a variety of theatre genres and theories and gain a deeper understanding of stage and theatre convention through acted scenes, improvisation, and class exercises. Character development and understanding of both written and spoken text are emphasized. Extensive rehearsal and performance are required. Students must be self-motivated.

This course is a prerequisite for Theater III.

### THEATER III HONORS

1 year, 1 credit; grades 11-12

**Prerequisite:** Theater II

This course is a continuation of the skills and techniques developed in Theater II. Classes will study a minimum of three play texts. Theater III students are held to higher standards in performance, production, and play analysis. Extensive rehearsal and performance are required. Students must be self-motivated.

This course is a prerequisite for Theater IV.

### IB THEATER

1 year, 1 credit; grades 11-12

**Prerequisite:** Theater II and teacher recommendation.

This course is for students choosing Theatre as their IB 6th Subject. Work in the class centers on preparation of four documents/artifacts required to meet IB qualifications. (Part one of the IB Theatre curriculum.)

### ACTING 1

**Prerequisite:** Student must try out for the course.

1 year, 1 credit; grades 10-12

This course identifies what makes performances believable and explores the tools used to create, articulate, and execute them through improvisation, simple scripted scenes, performance projects, and/or practical application. Upon completion of this course, students have a strong foundation for future scene work, script analysis, and play production. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.



**WORLD LANGUAGES****PRE IB LATIN I**

1 year, 1 credit; grade 9

**Prerequisite: None**

This is an honors level course that provides the foundation in Latin grammar and vocabulary that is necessary for the translation of Caesar's Commentaries and other primary sources. It also develops English vocabulary and analytical skills. Since the mastery of Latin is cumulative, this course establishes an essential framework for successive study.

**PRE IB LATIN II**

1 year, 1 credit; grade 10

**Prerequisite: Pre IB Latin I**

Following a brief review and expansion of grammar and vocabulary, this honors level course focuses on the translation of a variety of Latin authors, including Julius Caesar and Ovid. This course offers a final exposure to grammar as well as an introduction to primary sources, both of which are essential for the continued study of Latin.

**IB LATIN III**

1 year, 1 credit; grade 11

**Prerequisite: Pre IB Latin II**

IB Latin III is an introduction to the study of Latin literature which focuses on the epics of Vergil and Ovid, the lyric poetry of Horace and Catullus, and the oratorical prose of Cicero. In addition to learning the characteristics of each genre, literary devices and scansion of poetry, students investigate the turbulent first century B.C. (Part one of the IB Latin curriculum)

**IB LATIN V/VI**

1 year, 1 credit; grade 12

**Prerequisite: IB Latin III**

Continues the study of literary works of Vergil, Ovid, Horace, Catullus, oratorical prose of Cicero, and historical prose of Livy. The curriculum also focuses on the history of Livy and satire of Juvenal, along with the characteristics of each genre. In addition, students have the opportunity to study a topic from the Greek or Roman culture that is of interest to students. The IB SL or HL exam must be taken at the conclusion of the course. (Part two of the IB Latin curriculum)

**PRE IB SPANISH I**

1 year, 1 credit; grade 9

**Prerequisite: None**

This is an honors level introductory course for the development of listening comprehension, speaking, reading, writing, cultural appreciation of Spanish-speaking countries, and grammar. Since the mastery of Spanish is cumulative, this course

provides an essential framework for successive courses.

Emphasis for this course is on building a strong grammatical foundation so that the student may successfully complete IB Prep Spanish II as a prerequisite for the IB exam.

**PRE IB SPANISH II**

1 year, 1 credit; grade 9-10

**Prerequisite: IB Prep Spanish I**

This is an honors level intermediate course with continuing progress in listening, speaking, reading, and writing skills. Emphasis for this course is placed on building a strong grammatical foundation so that the student may successfully complete IB Spanish III as a prerequisite for the IB Exam.

**IB SPANISH III**

1 year, 1 credit; grade 10-11

**Prerequisite: IB Prep Spanish II**

This course reinforces and expands grammar learned in IB Prep Spanish II. Structured listening and speaking will continue with a variety of subject and media in order to help the student achieve greater proficiency in these areas. Emphasis for this course is placed on the history and literature of the target language in preparation for the IB Exam. (Part one of the IB Spanish curriculum)

**IB SPANISH V/VI**

1 year, 1 credit; grades 11-12

**Prerequisite: IB Spanish III**

This is an intensive language course focusing equally on the development of proficiency in oral and written communication, wider range of vocabulary and review of grammatical structures. This course is designed to prepare students for the IB Exam. One or two works of literature and/or a research topic are covered. There will be regular and extensive practice in vocabulary, grammatical forms and oral expression. The IB exam must be taken at the conclusion of this course. Select students may also take the Advanced Placement Exam. (Part two of the IB Spanish curriculum)

**HEALTH / PHYSICAL EDUCATION****HEALTH OPPORTUNITIES AND PHYSICAL EDUCATION (HOPE)**

1 year, 1 credit; grade 9-12

\*IB Students are exempted from the course.

**Prerequisite: None**

The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness.

**INDIVIDUAL SPORTS 1/11**

1 semester, ½ credit; grades 9-12

**Prerequisite: None**

Prerequisite: None 1 semester, ½ credit; grades 9-12 This course will enable students to develop knowledge and skills in specified individual and dual sports and to maintain or improve health - related fitness. Activities and sports completed in Individual and Dual Sports I will not be completed in Individual and Dual Sports II.

**VOLLEYBALL I/II**

1 semester, ½ credit; grades 9-12

**Prerequisite: None**

The content for this course includes knowledge and application of skills, techniques, strategies, rules, and participation in volleyball.

**WEIGHT TRAINING I/II/III**

1 semester, ½ credit; grades 9-12

**Prerequisite: None**

The purpose of this course is to provide a method of preparation in athletics. Developing strength and muscular endurance will aid you in achieving your optimal fitness.

**JROTC****ARMY LEADERSHIP EDUCATION & TRAINING I**

1 year, 1 credit; grades 9-12

**Prerequisite: None**

The purpose of this course is to enable students to develop knowledge of the history, customs, traditions, and purpose of the Army JROTC. The course includes development of basic leadership skills including leadership principles, values, and attributes. Students should master appreciation for diversity. Active learning strategies are integrated throughout the course with an emphasis on writing skills and oral communication techniques. Financial planning as well as physical fitness, diet, nutrition, healthy lifestyles, awareness of substance abuse and prevention, and basic first aid measures are included. A study of the United States Constitution, Bill of Rights, responsibilities of United States citizens, and the federal justice system is also provided.

**ARMY LEADERSHIP EDUCATION & TRAINING II**

1 year, 1 credit; grades 10-12

**Prerequisite: Leadership Education & Training I** The purpose of this course is to enable students to expand on skills taught in Leadership Education and Training I. This course introduces the concepts of equal opportunity, fair treatment of minorities, and prevention of sexual harassment. It provides instruction on leadership skills, leadership theories, as well as the basic principles of management. It provides self-assessments that help students determine their skill sets and

opportunities to teach using accepted principles and methods of instruction. It emphasizes community projects to assist in drug prevention efforts. It also includes dietary guidelines, fitness, and map-reading and orienteering skills. It discusses the significant events that helped shape and develop the Constitution and government and teaches the role of political parties in the election process.

**ARMY LEADERSHIP EDUCATION & TRAINING III**

1 year, 1 credit; grades 11-12

**Prerequisite: Leadership Education & Training II**

The purpose of this course is to enable students to expand on skills taught in Leadership Education and Training II. This course allows cadets to investigate the interrelationships of the services while they continue to build their leadership development and decision-making skills. It includes negotiation skills and management principles. It emphasizes staff procedures and opportunities to handle various leadership situations as well as prevent violence and manage anger. The research, identification, planning, and execution of service learning activities are included. This course gives cadets the opportunity to apply basic concepts of strategies for career exploration and planning. It teaches how to create a career portfolio and plan for college or work. Financial management principles are studied. Skills for orienteering and /or land navigation are developed. The course also includes studies in the federal judicial system and how historical events have shaped social systems.

**ARMY LEADERSHIP EDUCATION & TRAINING IV**

1 year, 1 credit; grade 12

**Prerequisite: Leadership Education & Training III** The purpose of this course is to enable students to expand on skills taught in Leadership Education and Training III. This course focuses on creating a positive leadership situation, negotiating, decision making, problem solving, team development, project management, and mentoring. Students will demonstrate leadership potential in an assigned command or staff position within the cadet battalion organizational structure. The course teaches cadets how to use emotional intelligence in leadership situations as well as how to maintain a positive attitude. It provides instruction on etiquette, daily planning, financial planning, and careers. It includes requirements for the practical application of leadership duties. It emphasizes physical fitness through healthy individual and group competition. The interactions between groups of people and how they affect the area's cultural, economic, and political characteristics are discussed. Concepts of democracy and freedom and their influence on local governments are also included.



**LANGUAGE ARTS****ENGLISH HONORS I**

1 year, 1 credit; grade 9

**Prerequisite: None**

This course provides a beginning in literary analysis as well as experience in writing and research. A variety of literary genres will be studied. Written composition will focus on content and ideas as well as mechanics, usage, grammar, and organization. Vocabulary study will accompany the study of literature. This course prepares students for AP English. **Summer reading is required.**

**ENGLISH HONORS II**

1 year, 1 credit; grade 10

**Prerequisite: English Honors I**

Students read British literature from all genres. Written composition develops writing skills in response to literature. Oral composition develops students' skills in individual and group responses to literature. Students will also study research procedures. This course prepares students for AP English. **Summer reading is required.**

**AP ENGLISH LANGUAGE AND COMPOSITION**

1 year, 1 credit; grade 11

**Prerequisite: English Honors I and II**

This course offers students the opportunity to receive college credit and/or placement if an acceptable score is made on the College Board's Advanced Placement Examination. This course provides students with opportunities to write in different rhetorical modes and to analyze the resources of language. American literature and predominately prose are the focus of this course. There is an emphasis on timed writing and college level reading. **Summer reading is required.**

**AP ENGLISH LITERATURE AND COMPOSITION**

1 year, 1 credit; grade 11-12

**Prerequisite: English III Honors or AP English Language and Composition**

This course offers students the opportunity to receive college credit and/or placement if an acceptable score is made on the College Board Advanced Placement Examination. Students will analyze and write about all genres of literature. **Summer reading is required.**

**IB ENGLISH: LITERATURE IV**

1 year, 1 credit; grade 12

**Prerequisite: IB Diploma Candidate**

This is the final IB course which prepares students for the IB

English Examination as well as the Advanced Placement Literature and Composition Examination. Emphasis in this course is on analysis of literature through both discussion and writing. **Summer reading is required.** The IB English: Literature Exam will be taken at the conclusion of this course. (Part two of the IB English: Literature curriculum)

**IB THEORY OF KNOWLEDGE (TOK) I / II**

3 semesters, 1.5 credit; grades 11-12

**Prerequisite: IB Diploma Candidate**

This is a required IB course designed to allow students to integrate the knowledge they have acquired and to develop critical thinking skills. This course enables students to view the interrelationship of various disciplines and to study systems of knowledge. Students will examine and contrast opinion, belief, knowledge, faith, and truth. **Summer reading is required.** IB students study Theory of Knowledge over the course of both grades 11 and 12.

**MATHEMATICS****GEOMETRY HONORS**

1 year, 1 credit; grades 9 -10

**Prerequisite: Algebra I**

Geometry emphasizes critical thinking, discovery of relationships, and skills in applying the deductive methods to mathematical situations. Topics include: logic and reasoning, the Euclidean geometry of the plane, similarity, congruence, geometric inequalities, polygons; circles, area and volume, transformations, and trigonometry. This course emphasizes the geometry requisite to succeed in AP Calculus and AP Statistics.

**ALGEBRA II HONORS**

1 year, 1 credit; grades 9 - 10

**Prerequisite: Geometry Honors or IB Prep Geometry**

**Honors** Algebra II provides an in depth study of the structures of the complex number system. The reflection of this structure is recognized through the integral use of technology (graphing calculators and computers) in the development of the techniques for the course. Topics include: first-degree equations and inequalities in one and two variables, systems of equations and inequalities, functions and relations, polynomials, rational expressions, radicals; exponential and logarithmic functions, complex number system, conic sections, sequences and series, permutations, combinations, and probability. This course emphasizes the algebra requisite to succeed in AP Calculus and AP Statistics.

**PRE - CALCULUS**

1 year, 1 credit; grades 10 - 11

**Prerequisite: Algebra II**

The relationship of Algebra, Trigonometry, and Analytic Geometry are stressed in this course. Topics include: sequences and series; limits; vectors; circular and trigonometric functions, conic sections; complex numbers, polynomials, curve and sketching. An integrated use of technology (graphing calculators and computers) recognizes and reflects the development of the techniques for the course. This course is a rigorous review and strengthening of the geometry, algebra, and trigonometry requisites for AP Calculus and AP Statistics.

**AP CALCULUS AB**

1 year, 1 credit; grades 11-12

**Prerequisite: Pre-Calculus**

This course covers the first two semesters of college calculus. Topics include: differentiation and integration of polynomials, trigonometric, inverse trigonometric, exponential, and logarithmic functions with applications; calculus of general functions, Rolle's and mean value theorem, and techniques of integration. An integrated use of technology (graphing calculators and computers) recognizes and reflects the development of the techniques for the course. (This course may also satisfy part one of the IB Math HL curriculum)

**AP CALCULUS BC**

**1 year, 1 credit; grades 11-12 Prerequisite: Pre-Calculus**

This course covers the first two semesters of college calculus. Topics include: differentiation and integration of polynomials, trigonometric, inverse trigonometric, exponential, and logarithmic functions with applications; calculus of general functions, Rolle's and mean value theorem, and techniques of integration. An integrated use of technology (graphing calculators and computers) recognizes and reflects the development of the techniques for the course. (This course may also satisfy part one of the IB Math HL curriculum)

**IB MATHEMATICAL STUDIES****(MATHEMATICAL STUDIES YEAR 1)**

1 year, 1 credit; grade 11

**Prerequisite: Algebra II Honors**

The emphasis of this course is placed on the application of mathematics to real life situations. Topics include sets and logic; relations and functions; trigonometric functions; analytic geometry; probability and statistics; sequences and series; financial mathematics; and differential calculus. An in-depth project is required. (Part one of the IB Mathematical Studies curriculum)

**IB CALCULUS AND DESCRIPTIVE STATISTICS (MATH SL or HL YEAR 2)**

1 year, 1 credit; grades 12

**Prerequisite: Pre-Calculus or IB Pre-Calculus** This course covers a wide range of mathematical topics with heaviest

emphasis on functions, calculus, and probability. Also included is work in algebra, circular functions and trigonometry, matrices, and vectors. An in-depth investigation project is required. The IB Math SL Exam will be taken at the conclusion of this course. (Part two of the IB Math SL curriculum)

**AP STATISTICS**

1 year, 1 credit; grades 12

**Prerequisite: Pre-Calculus:**

Emphasis for the course is on interpreting information, writing analysis and project work. An integrated use of technology (graphing calculators and computers) recognizes and reflects the development of the techniques for the course. Students can only receive one credit for Probability and Statistics Honors or AP Statistics.

**SCIENCE****ENVIRONMENTAL SCIENCE HONORS**

1 year, 1 credit; grade 9-10

**Prerequisites: None**

Environmental science is interdisciplinary; it embraces a wide variety of topics from different subject areas. The concepts in this course focus on the ways humans impact the environment. Outdoor field study conducted throughout the year is a part of this course.

**IB ENVIRONMENTAL SYSTEMS AND SOCIETIES**

1 year, 1 credit; grade 11-12

Through studying environmental systems and societies (ES&S) students will be provided with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face.

**BIOLOGY I HONORS**

1 year, 1 credit; grade 9

**Prerequisite: None**

The concepts covered in this course include: basic chemistry, the cell and its environment, biological changes, and genetics. The student learns to interpret scientific data and to use the microscope properly. Emphasis for this course is placed on the application of scientific knowledge and on scientific investigations. This course prepares students by providing the background for AP Biology, AP Chemistry, and AP Environmental Science. **A science project is a requirement for this course.**

**IB BIOLOGY II - III**

1 year, 1 credit; grade 12

**Prerequisite: IB Biology I**

This course is a continuation of material covered in IB Biology I and involves laboratory investigations which include the use of scientific inquiry, research, measurement, problem solving, and safety procedures as an integral part of the course. The IB Biology Exam will be given at the conclusion of this course. Students will also have the opportunity to sit for the AP Biology exam. (Part two of the IB Biology curriculum)

**PRE IB CHEMISTRY I**

1 year, 1 credit; grade 10

**Prerequisite: Geometry; IB Prep Biology I**

This course is an accelerated study of basic chemistry topics included within the Chemistry I Honors curriculum and the addition of organic chemistry. Emphasis for this course is placed on the chemistry found in biological systems and the ability of each student to conduct independent laboratory research. This course provides an important foundation for AP/IB Chemistry.

**A science project is a requirement for this course.**

**ANATOMY & PHYSIOLOGY HONORS**

1 year, 1 credit; grades 11- 12

**Prerequisites: Biology I Honors, Chemistry I Honors**

This course is designed to introduce students to the structure and functions of the human body. Topics of study include: biochemistry, nutrition, morphology, and physiology of cells, tissues, organ systems, and forensic science. Emphasis for this course is placed on dissection of a vertebrae specimen as well as use of the microscope. **A science project is a**

**requirement for this course.**

**AP PHYSICS 1**

1 year, 1 credit; grades 10-12

**Prerequisite: Geometry Honors Co-requisite: Algebra II Honors Equivalent to a first-semester college course in algebra-based physics.**

This course serves as the foundation in physics for all students. It includes a rigorous, inquiry-based laboratory component. The course covers Newtonian mechanics, energy, mechanical waves and sound, oscillation, and simple circuits. This college-level course follows the outline for the Advanced Placement Physics 1 course of the College Entrance Examination. Emphasis for this course is placed on problem solving ability and critical thinking.

**UNMANNED AIRCRAFT SYSTEMS (DUAL ENROLLMENT)**

1 semester, 3 College Credits; Grade 11-12

This course is a survey of unmanned aircraft systems (UAS), emphasizing the military and commercial history, growth, and

application of UASs. The course will include basic acquisition, use, and operation of UASs with an emphasis on operations.

**PRINCIPLES OF AERONATICS (DUAL ENROLLMENT)**

1 semester, 3 College Credits; Grade 11-12

This course is a study in human factors, security, aviation safety, occupational safety and health, air traffic control, aircraft maintenance, and aeronautical science.

**INTRODUCTION TO OCEANOGRAPHY (DUAL ENROLLMENT)**

1 semester, 3 College Credits; Grade 11-12

An introduction to ocean science, designed to familiarize students with basic oceanographic principles and current issues concerning humans' relation with the ocean. Topics include: physical characteristics of the ocean (light, salinity, density, temperature), waves, tides and currents; the ocean floor; ocean zones; types and classification of marine life; effects of the environment on marine life; marine ecology; marine resources (biological and physical); ocean pollution and its effects on marine life; marine law; and nautical charts.

**PRINCIPLES OF EARTH SPACE (DUAL ENROLLMENT)**

1 semester, 3 College Credits; Grade 11-12

The Earth comprises four components: the solid earth, the hydrosphere (water), the atmosphere, and the biosphere (life forms). This course explores the many fundamental processes that occur in each of these components and the interactions between them.

**SOCIAL STUDIES****AP HUMAN GEOGRAPHY**

1 year, 1 credit; grade 9

**Prerequisite: None**

The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**AP WORLD HISTORY**

1 year, 1 credit; grades 10, IB Prep 9

**Prerequisite: None**

This college preparatory course selects content from the ancient world to modern times and provides students the opportunity to investigate the chronological development of events and themes in civilization.

**AP U.S. HISTORY**

1 year, 1 credit; grade 11

**Prerequisite: None**

This course is designed specifically for the academically advanced student and stresses the political and social development of the United States. Higher cognitive processes are emphasized, combined with research and writing skills. Due to the in-depth study of this course, heavy emphasis is placed on extensive outside reading.

**IB CONTEMPORARY HISTORY I - II**

1 year, 1 credit; grade 12

**Prerequisite: IB Diploma Candidate**

This course is for the IB student taking either the standard or higher level examination in History. The content is designed to cover extensively three of the ten IB World History topics. Additionally, students taking the higher level examination will be reviewed for their regional topic-History of the Americas.

**Summer reading is required.** Students will sit for the IB History of the Americas exam at the conclusion of this course. (Part two of the IB History of the Americas curriculum)

**LAW STUDIES**

1 semester, ½ credit; grade 11/12

**Prerequisite: None**

The purpose of this course is to acquire an understanding of the American legal process. Examples of topics include: constitutional guarantees of citizens, comparison of adult and juvenile justice systems, the role of law enforcement officials, and social values and their impact on interpretations of the law.

**LEGAL SYSTEMS**

1 semester, ½ credit; grade 11/12

**Prerequisite: None**

The purpose of this course pertains to the examination of the American legal system and the nature of specific rights granted under the United States Constitution. Content includes: the historical antecedents of laws and the basis for the creation of laws, the background, principles and applications of the United States Constitution, the rights protected by the Constitution and precedent-setting cases related to these rights, the process for enacting criminal laws at the state and local levels, the stages of the criminal justice system, the government and private agencies which provide services to individuals accused of crimes, the citizen's role in the legal system, the role of women and diverse cultural groups within the justice system, and careers in the justice system.

**COMPREHENSIVE LAW STUDIES**

1 semester, ½ credit; grade 11/12

**Prerequisite: None**

The purpose of this course pertains to the study of the components and processes associated with the American legal

system and the comprehensive examination of the civil and criminal justice systems. Content should include, but is not limited to, the historical antecedents for law, reason for laws, civil and criminal law, social values and their impact on the establishment and interpretation of laws, causes and consequences of crime, comparison of adult and juvenile justice systems, significance of the Bill of Rights to the American legal system, family and consumer law, rights and responsibilities under the law, and importance of the adversarial relationship in American jurisprudence.

**COURT PROCEDURES I-II**

1 semester, ½ credit; grade 11/12

**Prerequisite: None**

This course studies the structure, processes and procedures of the judicial systems of the United States and Florida. Content should include, but not be limited to, the structure, processes and procedures of county, circuit and federal courts, civil and criminal procedures, juvenile law, the rights of the accused, evolution of court procedures, comparative legal systems, and career choices in the judicial system.

**STUDENT LIFE SKILLS (DUAL ENROLLMENT)**

1 semester, ½ credit; grade 11/12 (Will be paired with either Law Studies or African American History Hon.)

**Prerequisite: None**

This survey course is designed to assist students in developing skills that will help them succeed in college, career and life. This

course will emphasize how basic academic success skills can be applied in a knowledge-based economy. Included in this course are problem solving, communication skills, work ethics, introduction to information literacy and other related topics.

**AP PSYCHOLOGY**

1 year, 1 credit; grades 10- 12

**Prerequisite: None**

The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. The course traces the emergence of scientific psychology in the 19th century from its roots in philosophy and physiology and covers the development of the major "schools" of psychology: Behavioral, Biological, Cognitive, Humanistic, and Psychodynamic. Students learn how these various approaches guide research and practice in psychology. Other topics covered are: research methods, sensations and perceptions, learning, cognition, motivation and emotion, developmental psychology, personality theory, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology.



## **PSYCHOLOGY**

1 semester, ½ credit; grade 12

### **Prerequisite: None**

This course explores the study of psychology, where students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this first introductory course includes major theories and orientations of psychology, psychological methodology, memory and cognition, human growth and development, personality, abnormal behavior, psychological therapies, stress/coping strategies, and mental health.

## **SOCIOLOGY**

1 semester, ½ credit; grade 12

### **Prerequisite: None**

This elective course is designed to provide an introduction to the study of group interaction and its effect on individual behavior. The key concepts to be studied are the social self, socialization, status, role norms, sociological method, social institutions, social stratification, ethnicity, social change, and social systems. Current social issues will be incorporated through the use of case studies.

## **TECHNOLOGY/FILM**

### **DIGITAL INFORMATION TECHNOLOGY**

1 year, 1 credit

Prerequisite: None

This course is to introduce concepts of information technology and careers as well as the impact information technology has on the world, people, and industry. Includes basic web design concepts.

### **AP COMPUTER SCIENCE PRINCIPLES**

1 year, 1 credit; grades 10-12

**Prerequisite: Algebra II, Digital Info Tech** This course emphasizes the fundamentals of computing, including problem solving, working with data, understanding the Internet, cybersecurity, and programming.

### **IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY**

1 year, 1 credit; grades 11-12

**Prerequisite: Algebra II, Teacher Recommendation**

**Student** will learn about IT applications and developments in specified scenarios and the social and ethical significance of specified IT applications and developments, technical knowledge of ITGS terminology, concepts and tools, and IT systems. Students will study impacts of IT applications and developments in specified scenarios, analyze the social and ethical significance of specified IT applications and developments, transfer IT knowledge and make connections

between specific scenarios. Students will also learn to evaluate local and global impacts of specified IT developments through individually researched studies, a solution involving IT to a specified problem using knowledge of IT systems, and discuss the social and ethical implications of specified IT policies and developments. Students will sit for the IB ITGS examination at the conclusion of this course.

### **IB FILM I**

1 year, 1 credit; grade 11

**Prerequisite: None (TV Production recommended)**

Through the study and analysis of film texts and exercises in filmmaking, the IB Diploma Programme film course explores film history, theory, and socio-economic background. The course develops students' critical abilities, enabling them to appreciate the multiplicity of cultural and historical perspectives in film. To achieve an international understanding within the world of film, students are taught to consider film texts, theories, and ideas from the points of view of different individuals, nations, and cultures. (Part one of the IB Film curriculum)

### **IB FILM II—III**

1 year, 1 credit; grade 12

**Prerequisite: IB Film I**

Through the study and analysis of film texts and exercises in filmmaking, the IB Diploma Programme film course explores film history, theory, and socio-economic background. The course develops students' critical abilities, enabling them to appreciate the multiplicity of cultural and historical perspectives in film. To achieve an international understanding within the world of film, students are taught to consider film texts, theories, and ideas from the points of view of different individuals, nations, and cultures. Students will complete and submit all documentation for the IB Film examination during this course. (Part two of the IB Film curriculum)

