



ST. EDWARD
HIGH SCHOOL

SPONSORED BY THE BROTHERS OF HOLY CROSS

2021 - 2022 COURSE CATALOG

St. Edward High School
13500 Detroit Avenue
Lakewood, Ohio 44107
www.sehs.net

ST. EDWARD HIGH SCHOOL

"We can state in a word the kind of teaching we wish to impart. We do not want our students to be ignorant of anything they should know. To this end, we shall avoid no sacrifice. We shall always place education side by side with instruction; the mind will not be cultivated at the expense of the heart. While we prepare useful citizens for society, we shall likewise do our utmost to prepare citizens for eternal life."

Father Basil Moreau Founder of the Congregation of Holy Cross

MISSION STATEMENT

St. Edward High School, a Catholic school in the Holy Cross tradition, educates the minds and hearts of a diverse group of young men to have the competence to see and the courage to act as men of hope for the transformation of the world.

We believe in:

FAITH

Formation of young men in a Faith-based tradition that is God-centered and emphasizes the acceptance of each person

EXCELLENCE

An ongoing commitment to excellence in academics, as well as co-curricular programs

RELATIONSHIPS

A welcoming, family-oriented school community

SERVANT LEADERSHIP

A Christ-like commitment to genuine leadership through service to others

PRINCIPAL

Mr. KC McKenna '00

DEAN OF ACADEMICS

Mr. Matt Stepnowsky

ASSOCIATE DEAN OF ACADEMICS/ IB COORDINATOR

Mr. Nick Kuhar

SCHOOL COUNSELORS

Mr. Thomas Carey, Director of Counseling
Mrs. Colleen Ganor
Mr. Grant Wanner

COLLEGE COUNSELORS

Ms. Moira O'Riordon,
Director of College Counseling
Mr. Geoff Morton
Mrs. Desiree Rodriguez-Gould
Ms. Alicia Watts

REGISTRARS

Mr. Mike Homza
Mr. Tom Splawski

OFFICE MANAGER

Mrs. Lois Weaver

COUNSELING CENTER: 216-221-4230

COURSE REGISTRATION POLICIES

A. COURSE SELECTION

Registration will be conducted in February and March. Students and parents are encouraged to read this catalog thoroughly. Students should select their courses based on the information contained in this catalog, coupled with input from faculty and their assigned school counselor. Students and parents also need to recognize that course selections are final. Students have an opportunity to meet with their respective counselors during the course selection process. Counselors will use this meeting time to assist each student in choosing courses that will best enable him to meet the graduation requirements, while also affording him educational opportunities that will best match his academic abilities and future plans. It is important that students submit their selections in a timely fashion as failure to do so may result in being closed out of courses. Alternate choices are required for all elective courses.

ACADEMIC COURSE LOAD: All students are required to carry a minimum of six classes each semester. Freshmen usually carry seven classes per semester.

GRADUATION: Requirements are listed on pages 5-6. All students must complete all required courses and earn a minimum of 24 credits to be eligible to graduate.

B. SCHEDULE CHANGES

Before registering for courses for the year, students should first read this course catalog thoroughly and choose their courses carefully. Once registration is completed, courses will be changed for the following conditions without penalty:

- There is an error in the original schedule.
- The student is academically misplaced.
- There is a scheduling conflict among chosen courses.
- Individual elective courses were cancelled due to insufficient enrollment.
- Teacher initiated change.

If a student notices an error in their schedule, they should contact their counselor before the semester begins to make the correction. Once the semester begins, students cannot withdraw from a class unless there are medical or academic reasons which justify the withdrawal.

C. STUDENT-INITIATED COURSE ADDITION OR WITHDRAWAL

Student additions/withdrawals must be completed within the first 10 days of each semester. Students must follow the procedures for a schedule change beginning with meeting with their counselors and completing the schedule change form. There is a \$25.00 charge for each change.

GRADING SCALE

97-100	=	A+
93-96	=	A
90-92	=	A-
87-89	=	B+
83-86	=	B
80-82	=	B-
77-79	=	C+
73-76	=	C
70-72	=	C-
67-69	=	D+
63-66	=	D
60-62	=	D-
0-59	=	F

QUALITY POINT SCALE

Grade	Standard	Honors	AP, IB or CCP
A+	4.3	4.8	5.3
A	4.0	4.5	5.0
A-	3.7	4.2	4.7
B+	3.3	3.8	4.3
B	3.0	3.5	4.0
B-	2.7	3.2	3.7
C+	2.3	2.8	3.3
C	2.0	2.5	3.0
C-	1.7	2.2	2.7
D+	1.3	1.3	1.3
D	1.0	1.0	1.0
D-	0.7	0.7	0.7
F	0.0	0.0	0.0

DETERMINING SEMESTER GRADES

All credit is earned on a semester basis. Semester grades are determined by weighing the two quarter grades at 85%; the semester examination is valued at 15%.

HONOR ROLL

Honor Roll is achieved with a GPA of 3.3 in any given quarter. With a GPA of 3.7 or above, a student achieves High Honor Roll status.

GRADUATION REQUIREMENTS

THEOLOGY	4 CREDITS	
ENGLISH	4 CREDITS	One credit of English required each year at the standard, honors, AP, or IB level (elective courses do not count toward fulfilling this credit).
MATHEMATICS	4 CREDITS	Varies depending upon course path and teacher recommendation.
SCIENCE	3 CREDITS	Varies depending upon course path and teacher recommendation.
SOCIAL STUDIES	3 CREDITS	Required courses in World History, US History, Government, and one course that meets Economic/Financial Literacy requirement.
LANGUAGE ACQUISITION	2 CREDITS	2 years of the same language at SEHS, 3 years recommended
FINE ARTS	1 CREDIT	½ credit typically earned in Grade 7 or 8
HEALTH	½ CREDIT	
PHYSICAL EDUCATION	½ CREDIT	Exemption with sport or Marching Band participation for 2 seasons
COMMUNITY SERVICE		Completion charted through Theology classes
ELECTIVE COURSES	VARIES	

GRADUATION REQUIREMENTS FOR IB DIPLOMA CANDIDATES

THEOLOGY	4 CREDITS	
ENGLISH	4 CREDITS	
MATHEMATICS	4 CREDITS	
SCIENCE	3-4 CREDITS	Varies depending upon IB course choices
SOCIAL STUDIES	3-4 CREDITS	Varies depending upon IB course choices
SECOND LANGUAGE ACQUISITION	4 CREDITS	
FINE ARTS	1 CREDIT	½ credit typically earned in Grade 7 or 8
HEALTH	½ CREDIT	
PHYSICAL EDUCATION	½ CREDIT	Exemption with sport or Marching Band participation for 2 seasons
THEORY OF KNOWLEDGE	1 CREDIT	Begins in Junior year
EXTENDED ESSAY		Begins in Junior year
CAS PROGRAM		Begins in Junior year
COMMUNITY SERVICE		Completion charted through Theology classes
ELECTIVE COURSES	VARIES	

ADVANCED COURSE OFFERINGS

HONORS COURSES

- Honors English 1
- Honors English 2
- Honors World History
- Honors American Studies and Government
- Honors Algebra 2
- Honors Geometry & Precalculus
- Honors Pre-Calculus
- Honors Biology
- Honors Chemistry
- Honors Physics
- Honors Environmental Science
- Honors French 1, 2 and 3
- Honors Latin 1, 2, 3 and 4
- Honors Spanish 1, 2 and 3

ADVANCED PLACEMENT (AP) COURSES

- AP English Language and Composition
- AP English Literature and Composition
- AP US History
- AP US Government and Politics
- AP Comparative Government and Politics
- AP Macroeconomics & Microeconomics
- AP Calculus AB
- AP Statistics
- AP Computer Science Principles
- AP Physics C: Electricity & Magnetism

COLLEGE-LEVEL COURSES

- College Composition 1/Introduction to Fiction
- Ceramics 1

ADVANCED COURSE OFFERINGS (CONT.)

INTERNATIONAL BACCALAUREATE (IB) COURSES

- IB Literature HL
- IB History of the Americas & 20th Century World History HL
- IB 20th Century World History SL
- IB Mathematics SL
- IB Mathematics HL
- IB Biology SL
- IB Chemistry SL
- IB Chemistry HL
- IB Physics SL
- IB Physics HL
- IB French SL
- IB Latin SL
- IB Spanish SL
- IB Design Technology SL
- IB Design Technology HL
- IB Computer Science SL
- IB Film Studies HL
- IB Visual Arts SL
- IB Music Perspectives SL
- IB Music Perspectives HL
- IB Business Management SL
- IB Business Management HL
- IB Theory of Knowledge/Extended Essay/CAS

Note: SL = Standard Level; HL = Higher Level

THE COLLEGE CREDIT PLUS PROGRAM

The College Credit Plus Program has been established to permit high school students to earn college and high school graduation credit through the successful completion of college courses. The program is intended to provide expanded opportunities for appropriately qualified high school students to experience coursework at the college level. College courses should supplement the broad academic preparation needed by high school students. These courses would be in addition to AP and IB courses which also provide students with an opportunity to attain college credit. Selected courses at St. Edward qualify as College Credit Plus courses and will earn credit towards both high school graduation and college credit. Courses can also be taken at the college/university. These courses must be enrichment college courses and not remedial. Students must also meet the college admission criteria.

Please note that students in non-public schools are not guaranteed funding through College Credit Plus. But if funding is not approved, families can still pay for the class for a nominal fee and will still receive college credit.

Contact your school counselor for more details on how to apply.

COLLEGE CREDIT PLUS COURSES AVAILABLE AT ST. EDWARD HIGH SCHOOL

English

- College Composition/Introduction to Fiction

Fine Arts

- Ceramics I (available to juniors and seniors)

Language Acquisition

- Intermediate Latin Prose/Poetry (available to seniors)

DEPARTMENT OF THEOLOGY

The following Theology courses are required:

GRADE 9	Jesus in Scripture <i>and</i> Who is Jesus Christ?
GRADE 10	The Paschal Mystery <i>and</i> Christ's Mission in the Church
GRADE 11	Sacraments <i>and</i> Morality
GRADE 12	World Religions <i>and</i> Social Issues

JESUS IN SCRIPTURE

COURSE 713

- Grade 9
- 1 semester
- ½ credit each semester

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. If they have not been taught this earlier, they will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

WHO IS JESUS CHRIST?

COURSE 714

- Grade 9
- 1 semester
- ½ credit

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, and the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, the students will also learn who he calls them to be.

THE PASCHAL MYSTERY

COURSE 724

- Grade 10
- 1 semester
- ½ credit

The purpose of this course is to help students understand all that God has done for us through his Son, Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

CHRIST'S MISSION IN THE CHURCH

COURSE 725

- Grade 10
- 1 semester
- ½ credit

The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

SACRAMENTS

COURSE 733

- Grade 11
- 1 semester
- ½ credit

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ throughout life.

MORALITY

COURSE 734

- Grade 11
- 1 semester
- ½ credit

The purpose of this course is to help students learn the moral concepts and precepts that govern the lives of Christ's disciples.

WORLD RELIGIONS

COURSE 742

- Grade 12
- 1 semester
- ½ credit

The purpose of this course is to help students understand the manner in which the Catholic Church relates to non-Catholic Christians as well as to other non-Christian religions of the world. Students will understand how the Catholic Church proclaims Jesus Christ “the way, the truth, and the life (John 14:6)” and at the same time teaches that the Church rejects nothing that is true and holy in other religions. The course is intended to help students recognize the ways in which important spiritual truths can also be found in non-Catholic Christian and non-Christian communities, and to show them how Catholics relate to members of different faiths respectfully while continuing to live and profess their faith confidently.

SOCIAL ISSUES

COURSE 743

- Grade 12
- 1 semester
- ½ credit

The purpose of this course is to introduce students to the Church’s social teaching. In this course, students are to learn how Christ’s concern for others, especially the poor and needy, is present today in the Church’s social teaching and mission

DEPARTMENT OF ENGLISH

The following English courses are required:

GRADE 9	English 1 or Honors English 1
GRADE 10	English 2 or Honors English 2
GRADE 11	<p>English 3 or AP English Language & Composition or IB Literature HL Year 1</p> <p>IB Diploma Candidates: IB Literature HL Year 1</p>
GRADE 12	<p>English 4 or AP English Literature & Composition or IB Literature HL Year 2 or College Composition I and Introduction to Fiction</p> <p>IB Diploma Candidates: IB Literature HL Year 2</p>

ENGLISH 1

COURSE 011

- Grade 9
- 2 semesters
- ½ credit each semester

In this course, students gain basic skills in composition, grammar, literature, and vocabulary. Instruction in composition includes formulating a thesis statement and mastering the five-paragraph essay. An introduction to research methods and MLA format is also included. Opportunities for writing include expository essays, persuasive essays, descriptive essays, narratives, and creative writing. The proper use of grammar is emphasized as a component of composition instruction. Instruction in literature includes basic elements such as theme, plot, character, and setting, as well as literary techniques and styles. Short stories, plays, novels, and poetry are analyzed, as literature and composition are blended throughout the course. Regular vocabulary lessons will be administered.

HONORS ENGLISH 1

COURSE 010

- Grade 9
- 2 semesters
- ½ Honors credit each semester

In this course, students gain advanced skills in composition, grammar, literature, and vocabulary. Instruction in composition includes formulating and supporting an original thesis statement. Mastery of the five-paragraph essay is the focus of writing instruction, and an introduction to research methods and MLA format is also included. Opportunities for writing include expository essays, persuasive essays, descriptive essays, narratives, and creative writing. The proper use of grammar is emphasized as a component of composition instruction. Instruction in literature includes basic elements such as theme, plot, character, and setting, as well as literary techniques and styles. Short stories, plays, novels, and poetry are analyzed, as literature and composition are blended throughout the course. Critique and analysis are advanced at this level. Regular vocabulary lessons will be administered.

ENGLISH 2

COURSE 021

- Grade 10
- 2 semesters
- ½ credit each semester

This course builds upon the composition, grammar, literature, and vocabulary skills acquired in the freshman year. A variety of compositions, including both expository and persuasive essays, will be written. Composition instruction emphasizes the writing process, and includes a major research project, with an emphasis on research methods and skills. The proper use of grammar is emphasized through formal lessons and as a component of composition instruction. Instruction in literature includes a variety of works and genres. Vocabulary is studied throughout the year.

HONORS ENGLISH 2

COURSE 020

- Grade 10
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

This course builds upon the composition, grammar, literature, and vocabulary skills acquired in the freshman year. In addition to reading and analyzing a variety of literary works and genres, students will study schools of literary criticism. Presuming mastery of the five-paragraph essay, instruction in composition includes experimentation with form and style in order to increase effectiveness. A variety of compositions are assigned, including literary analysis and a major research paper. The expectations in terms of analytical thinking, interpretive skills, and writing ability are high at this level. The proper use of grammar is emphasized through formal lessons and as a component of composition instruction. The amount of reading, writing, and vocabulary in this course is significantly greater than in standard English.

ENGLISH 3

COURSE 035

- Grade 11
- 2 semesters
- ½ credit each semester

The main focus of this course is the reading and analysis of our American literary heritage from its beginnings to the present, emphasizing outstanding figures and works of recognized quality for analysis and enrichment. A formal review of selected grammar and usage topics is conducted periodically throughout each term. Composition work includes exposition, argumentation, literary analysis, and the personal essay. Research methods and skills are reinforced. In addition, students practice test-taking strategies designed to maximize the students' scores on standardized tests. Vocabulary is studied throughout the year.

AP ENGLISH LANGUAGE & COMPOSITION

COURSE 031

- Grade 11
- 2 semesters
- ½ AP credit each semester
- Criteria for selection: department approval
- AP exam fee

The main focus of this course is the reading and analysis of our American literary heritage from its beginnings to the present, emphasizing outstanding figures and works of recognized quality for analysis and enrichment. Composition work includes exposition, argumentation, literary analysis, and the personal essay. Research methods and skills are reinforced. Fulfillment of writing assignments in this course requires significantly more work than in English 3, with a greater emphasis placed on style and depth. In addition, a unit of study within the course is devoted to developing test-taking strategies designed to maximize the students' scores on the verbal section of the SAT and the AP Language & Composition exam. This course is advanced, and is recommended for highly motivated students with strong study skills. Students are required to take the AP exam in May.

IB LITERATURE HL

COURSE IB113/IB114HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable

In this course, students study a wide range of literature and are encouraged to appreciate the artistry of literature and to develop an ability to reflect critically on their reading. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches. Students study texts from a variety of genres, including drama, poetry, and prose nonfiction, with a special emphasis on the novel. Students will also study works in translation, which are especially important in introducing students, through literature, to other cultural perspectives. The response to this study of literature is through oral and written communication, thus enabling students to develop and refine their command of the English language.

ENGLISH 4

COURSE 045

- Grade 12
- 2 semesters
- ½ credit each semester

The main focus of this course is the reading and analysis of British and world literature from its beginnings to the present, emphasizing outstanding figures and works of recognized quality for analysis and enrichment. Composition work includes exposition, argumentation, literary analysis, and the personal essay. Research methods and skills are reinforced, and all students are required to write at least two research papers. Public speaking skills are also reinforced through both formal and extemporaneous student presentations and speeches.

AP ENGLISH LITERATURE & COMPOSITION

COURSE 040

- Grade 12
- 2 semesters
- ½ AP credit each semester
- Criteria for selection: department approval
- AP exam fee

The main focus of this course is the reading and analysis of both classic and contemporary literature, emphasizing outstanding authors and major works in all genres. Research methods and skills are reinforced, and all students are required to write two major research papers. Classes are conducted seminar-style, and active class participation on a consistent basis is expected. This course is advanced, and is recommended for highly motivated students with strong study skills. Students are required to take the AP exam in May.

COLLEGE COMPOSITION I

COURSE ENGL161

- Grade 12
- 1 semester
- 1 high school credit/ 3 college credits
- College Credit Plus dual enrollment is available for students who qualify.
- Admission to Lorain County Community College (LCCC) is a requirement.
- College Composition I **and** Introduction to Fiction are required for any student not enrolled in English 4, AP English Literature & Composition, or an IB English course.

An introduction to fundamental college-level skills in academic reading and writing. Summary, analysis, synthesis, and research documentation are emphasized, along with critical thinking and collaborative learning.

INTRODUCTION TO FICTION

COURSE ENGL225

- Grade 12
- 1 semester
- 1 high school credit/ 3 college credits
- College Credit Plus dual enrollment is available for students who qualify.
- Admission to Lorain County Community College (LCCC) is a requirement.
- College Composition I **and** Introduction to Fiction are required for any student not enrolled in English 4, AP English Literature & Composition, or an IB English course.

The study of short stories and novels to acquaint the general student with important themes and critical perspectives applicable to fiction.

CREATIVE WRITING

COURSE 070

- Grade 10-12
- 1 semester
- ½ credit

This course focuses on the fundamentals of composition and storytelling while maintaining a flexible understanding of what a text is or can be. It is designed to enable students to become better poets, dramatists, songwriters, and writers of short fiction. Regardless of whether the student aims to become a poet who is able to deftly handle metaphors and concrete imagery, a comic book artist who wishes to develop a more acute sense of how to marry graphics to text, or a raconteur who can move an audience through his characters and stories, this course will provide the student with the skills to communicate and express himself with greater passion and focus.

PUBLIC SPEAKING

COURSE 071

- Grade 9-12
- 1 semester
- ½ credit

In this introductory course, students have an opportunity to gain skill, self-confidence, and fluency in public speaking while emphasizing relevant presentation skills for the 21st century. Assessments will empower students to effectively navigate job interviews, communicate entrepreneurial ideas, inform and persuade audiences, constructively critique famous speeches, and share relevant personal stories and improvisational exercises. Moreover, students in this course will also be introduced to podcasting--which entails conceptualizing, recording, and editing a brief podcast episode--as well reviewing fundamentals of how to respectfully and appropriately compose emails to teachers, potential employers, and other professionals.

FILM STUDIES

COURSE 052

- Grade 11-12
- 1 semester
- ½ credit

Movies cast a spell over us by transporting us to an imaginary world. This elective course will screen a representative series of films. Students will be asked to respond to these films by composing a series of short papers and a final long paper.

AFRICAN AMERICAN LITERATURE

COURSE 076

- Grade 11-12
- 1 semester
- ½ credit

This course is an introductory survey of texts and discourse within African American literature. This course highlights works from the 20th and 21st centuries, focusing on autobiographical, historical and literary perspectives. Genres include the novel, short story, poetry, and drama, and our study explores perspectives of not only race, but also artistic and cultural themes and movements. Classes are conducted seminar-style, and active class participation on a consistent basis is expected through reading, writing, viewing, and various class activities. This course aims to reinforce the fundamental skills of close reading, interpretation, and literary analysis, in order to better understand African American literary voices.

VOICES OF THE OTHER

COURSE 077

- Grade 11-12
- 1 semester
- ½ credit

This course is an introductory survey of texts and discourses from marginalized communities within American literature. This course highlights texts from the 20th and 21st centuries, including African American, Native American, Feminist, LGBTQ+, and other voices. Genres include the novel, short story, poetry, and drama. Our study explores the systemic marginalization of groups and the artistic and cultural themes and movements that result. Classes are conducted seminar-style, and active class participation on a consistent basis is expected through reading, writing, viewing, and various class activities. This course aims to reinforce the fundamental skills of close reading, interpretation and literary analysis in order to better understand marginalized voices in America.

WRITING FOR PUBLICATION

COURSE 060

- Grade 10-12
- Approval of newspaper, yearbook, or literary arts magazine adviser required
- 1 semester
- Pass/fail and therefore not included in the GPA
- ½ credit

This course is designed to prepare students in written communication, journalism, and graphic design required for publication. This course includes both theory and practice in identifying, researching, and writing articles; editing materials for publication; and designing graphic layouts. Students must actively engage in the preparation of one of the school's student publications: *The Edsman* (newspaper), *Edwardian* (yearbook), or *Flight* (literary arts magazine). Specific roles may vary; faculty advisers will determine the specific duties and requirements for earning credit.

READING DEVELOPMENT

COURSE 091

- Grade 9
- 2 semesters
- ½ credit each semester

This course is designed to improve the student's reading and comprehension skills. Areas stressed are comprehension, vocabulary, study skills, flexibility of reading rate, critical reading skills, and independent reading. In addition, skills in objective and essay test taking and the organization and implementation of a plan of study for the student's various classes are emphasized. Note: Students enrolled in this course do so in lieu of a language course freshman year. Foreign language will then begin in the sophomore year.

DEPARTMENT OF SOCIAL STUDIES

The following Social Studies courses are required:

GRADE 9	World History or Honors World History
GRADE 10	Honors American Studies and Government (required for pre-IB candidates only)
GRADE 11	US History or AP US History or IB History of the Americas HL IB Diploma Candidates: IB Group 3: One 1- or 2-year course
GRADE 12	AP American Government & Politics or IB 20th Century World History HL or American Government and one of the following Financial Literacy* Courses: <ul style="list-style-type: none"> • Economics • Business & Entrepreneurship • AP Comparative Government and Politics • AP Macro/Microeconomics • IB Business Management SL • Introduction to Corporate and Personal Finance (*unless Financial Literacy course was taken Sophomore or Junior year) IB Diploma Candidates: 2nd Year of Group 3 - only if taking HL

WORLD HISTORY

COURSE 112/113

- Grade 9
- 2 semesters
- ½ credit each semester

This course examines the development of human populations from the Enlightenment to modern day. Students will trace the evolution of social, political, economic, and religious systems and examine the role of the environment in determining and affecting the progression of culture. Students will also explore topics such as innovation and technological change and their impact on cultural development. Using primary and secondary sources, students will be expected to comprehend, analyze, and evaluate through a variety of written and project-based assessments.

HONORS WORLD HISTORY

COURSE 115H

- Grade 9
- 2 semesters
- ½ Honors credit each semester

This survey course focuses on the identification and evaluation of the patterns in World History that continue to influence present world society. Emphasis will be placed on analyzing and understanding historical themes such as poverty, classism, militarism, self-determination, trade, and political, social and industrial development. Using both primary and secondary sources, students will be expected to demonstrate their knowledge of these themes and their current impact using both oral and written assignments. Students will also be required to participate in a Model United Nations simulation in the fall of the year.

HONORS AMERICAN STUDIES AND GOVERNMENT

COURSE 125

- Grade 10
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: Current teacher approval
- Required for all students intending to pursue the IB diploma
- This course fulfills the American Government requirement but does not fulfill the US History requirement. Students who take this course and do not continue in IB Social Studies must take either US History or AP US History their junior year.

This course focuses on both the history and also the government of the United States during the 19th and 20th centuries. Students will continue to enhance their skills of gathering, sorting and evaluating historical and political evidence. Through written and oral expression, students must demonstrate their ability to recognize, organize, analyze and appreciate selected historical events and their political, economic and social consequences.

UNITED STATES HISTORY

COURSE 132

- Grade 11
- 2 semesters
- ½ credit each semester

The fundamental objective of this course is to provide students with a comprehensive understanding of the political, economic and social development of the United States from 1877 to the present. The students will also recognize the evolution of the United States as a world power, the role of the U.S. in the world, and its relationship with other nations in the world. Furthermore, the course is designed to provide an intellectual foundation for observing, analyzing and understanding our contemporary American society. Essentially, the students will examine the nation's past to understand how it shaped the present, and will possibly shape the future.

AP UNITED STATES HISTORY

COURSE 130

- Grade 11
- 2 semesters
- ½ AP credit each semester
- Criteria for selection: Successful completion of a free-response essay under the supervision of an AP instructor; department approval
- AP exam fee

This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the materials and problems of United States history. The course seeks to develop students' capacity to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. To that end, the course is both reading and writing intensive, and draws from a number of supplementary documents, essays, and works of interpretive history. Students are required to take the AP exam in May.

AMERICAN GOVERNMENT

COURSE 121

- Grade 12
- 1 semester
- ½ credit

This one-semester course is a survey of the events, issues, and individuals that have shaped American government. It includes a survey of the historical underpinnings of our government, as well as a detailed analysis of the Constitution and the evolution of party politics, executive power, popular democracy, and our system of checks and balances. All three branches of the government will be studied in depth.

AP UNITED STATES GOVERNMENT & POLITICS

COURSE 140

- Grade 12
- 2 semesters
- ½ AP credit each semester
- Criteria for selection: 'B' average or better in English and Social Studies classes; department approval
- This course meets the economic/financial literacy graduation requirement.
- AP exam fee

AP Government and Politics is a college level course that explores the political theory and everyday practice that direct the daily operation of the U.S. government and shape our public policies. It will also provide the students with an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and analysis of specific examples. Finally, students are required to take the AP exam in May.

AP COMPARATIVE GOVERNMENT & POLITICS

COURSE 150

- Grade 12
- 1 semester
- ½ AP credit
- Criteria for selection: 'B' average or better in English and Social Studies classes; department approval required.
- This course meets the economic/financial literacy graduation requirement but does not replace the American government requirement.
- AP exam fee: \$93.00

The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policymaking. Students will analyze the political and economic systems of six countries: China, Great Britain, Iran, Mexico, Nigeria and Russia. Finally, students are required to take the AP exam in May.

**IB HISTORY OF THE AMERICAS/
20th CENTURY WORLD HISTORY HL****COURSE IB 303/304HL**

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- This course meets the economic/financial literacy graduation requirement but does not replace the American government requirement.
- Students taking this course but not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

Within this course, students will demonstrate a historical understanding of the Americas, including the United States, Canada and Latin America, through a comparative multi regional analysis of cultural, socioeconomic and political issues. In the second year, students will conduct an in-depth study of the causes, practices, and effects of war, independence movements, and an in-depth investigation of Kosovo and Rwanda in the 1990s. Students will be required to comprehend, analyze, evaluate, and integrate source material critically as historical evidence through a series of internal and external assessment.

IB 20th CENTURY WORLD HISTORY SL**COURSE IB302SL**

- Grade 11-12
- 2 semesters (1 year)
- ½ IB credit each semester
- This course meets the economic/financial literacy graduation requirement but does not replace the American government requirement.
- Students taking this course but are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This one-year IB course will focus on events, individuals and ideas that have shaped the human experience. This course will analyze 20th Century World History with an emphasis on topics such as causes, practices and effects of war and independence movements. The prescribed subject for this course is conflict and intervention which is an in depth investigation of Kosovo and Rwanda in the 1990s. Students will be required to comprehend, analyze, evaluate, and integrate source material critically as historical evidence through a series of internal and external assessment.

MODEL UNITED NATIONS 1

COURSE 181

- Grade 9-12
- 1 semester
- ½ credit

This course aims to develop critical thinking, research, analysis and presentation skills, whilst building global awareness and understanding of international affairs, with empathy for differing approaches and viewpoints and creating collaborative mindsets towards problem-solving a key element. Participants would also be fully integrated into the existing co-curricular Model United Nations (MUN) Program and targeted towards attending conferences - locally, regionally and internationally. The skillsets are multi-dimensional and inter-disciplinary and both the content and application support MYP Global Context and Approaches to Learning mindsets.

AFRICAN AMERICAN HISTORY

COURSE 157

- Grade 11-12
- 1 semester
- ½ credit

The fundamental objective of this course is to provide students with a comprehensive understanding of the political, economic and social experiences of African Americans via American colonial and the United States history from 1619 to 1968. The students will also recognize the leaders, their influence, and the overall contributions of African Americans to society. Furthermore, the course is designed to provide an intellectual foundation for observing, analyzing and understanding contemporary issues pertaining to African American's challenges and accomplishments as societal members. Essentially, the students will examine the nation's past to understand how it shaped the present, and will possibly shape the future.

LAW

COURSE 178

- Grade 11-12
- 1 semester
- ½ credit

The fundamental objective of this course is for students to develop an understanding of the organization of the United States Legal system. Students will also gain a comprehension of some basic legal concepts related to procedural and substantive law. Students will be introduced to cases, statutes and the Constitution, the sources of all of our laws. Essentially, this course will create an opportunity for the students to develop a strong legal vocabulary and to build their analytical skills.

DEPARTMENT OF MATHEMATICS

Four years of Mathematics are required. Courses will vary according to academic ability and performance.

TYPICAL MATH SCOPE AND SEQUENCE

9th GRADE	10th GRADE	11th GRADE	12th GRADE	COLLEGE LEVEL OPTIONS
Algebra 1	Geometry	Algebra 2	Precalculus or Trig/Math Topics or AP Computer Science Principles or CLO*	AP Statistics* AP Computer Science Principles* AP Calculus AB** IB Math SL** IB Math HL Yr 1*** IB Math HL Yr 2***
Advanced Algebra/ Accelerated Geometry	Algebra 2 or Honors Algebra 2	Precalculus or Honors Precalculus	College Level Options* or **	
Honors Algebra 2	Honors Geometry with Precalculus	College Level Options***	College Level Options***	

ALGEBRA 1 (STANDARD LEVEL)

COURSE 211

- Grade 9
- 2 semesters
- ½ credit each semester

This course presents the basic structure of our number system through the use of modern mathematical terminology and methods. The basic topics included are the real number system, operations with real numbers, using variables, solving equations, inequalities, graphing linear functions, exponents, polynomials, rational expressions, radicals, and quadratic functions. Stress is placed upon the understanding of concepts, and solving practical problems from everyday life and science. A graphing calculator is required. (TI-83/84 Plus is the school's standard calculator.)

ALGEBRA 1 (BASIC LEVEL)

COURSE 212

- Grade 9
- 2 semesters
- ½ credit each semester

This course thoroughly develops basic math concepts and reinforces essential math skills. The basic structure of our number system is presented through the use of modern mathematical terminology and methods, but at a slower pace and with less rigor than Algebra 1, Course 211. Topics included are the real number system, operations with real numbers, using variables, solving equations, inequalities, graphing linear functions. Stress is placed upon the understanding of concepts, and solving practical problems from everyday life and science.

ADVANCED ALGEBRA 1 AND ACCELERATED GEOMETRY

COURSE 209

- Grade 9
- 2 semesters
- $\frac{1}{2}$ credit each semester
- Note: Students must be successful in the first semester to move on to Accelerated Geometry in the second semester. Those not mastering the concepts of Advanced Algebra 1 will be moved to Algebra 1 (#211) for the second semester to achieve mastery of Algebra.

This course is a full year of intensive development of algebraic and geometric skills. It is designed for students who have a high aptitude in math but have not completed a rigorous course in Algebra 1. The first semester will be an intensive study of Algebra 1. The second semester will be an intensive study of Geometry with emphasis on problem solving for college entrance exams. Students who successfully complete this course may be recommended for Honors Algebra 2 their sophomore year. A graphing calculator (the TI-83/84 is the math department's recommendation) is required for the course.

HONORS ALGEBRA 2

COURSE 210

- Grade 9-10
- 2 semesters
- $\frac{1}{2}$ Honors credit each semester

Designed for students with a strong math aptitude who have completed a full year course in Algebra 1, this course is a rigorous development of Algebra 2, with a strong emphasis on proof and logic. Areas covered include solving equations and inequalities; solving systems; factoring polynomials; simplifying rational expressions; working with radicals and quadratic, polynomial, rational, exponential, and logarithmic functions; complex numbers, and conic sections. A graphing calculator is required. (TI83/84 Plus is the school's standard calculator.) A placement exam is required for incoming freshmen.

GEOMETRY WITH STATISTICS

COURSE 221

- Grade 10
- 2 semesters
- $\frac{1}{2}$ credit each semester

This course covers the fundamentals of Euclidean Geometry. Topics include linear and angle relations, triangle relationships, the Pythagorean Theorem, right triangle trigonometry, polygons, circular relations, and solid geometry. The course also includes an introduction to statistics that includes probability, probability distributions, and hypothesis testing. A variety of mathematical analyses will be explored.

GEOMETRY (BASIC LEVEL)

COURSE 222

- Grade 10-11
- 2 semesters
- $\frac{1}{2}$ credit each semester

This basic course covers the fundamentals of Euclidean Geometry. Topics include linear and angle relations, triangle relationships, the Pythagorean Theorem, right triangle trigonometry, polygons, circular relations, and solid geometry.

HONORS GEOMETRY AND PRECALCULUS

COURSE 227

- Grade 10
- 2 semesters
- $\frac{1}{2}$ Honors credit each semester
- Criteria for selection: department approval
- Prerequisite: Honors Algebra 2

Designed for the sophomore who has successfully completed 210 Honors Alg 2, the first semester of this course is a rigorous development of Geometry with a strong emphasis on proof (both direct and indirect) and logic. Important functions from Algebra 2, including exponential and logarithmic functions will be revisited. The second semester is a rigorous development of Unit Circle Trigonometry in preparation for Calculus. Students will also revisit Sequences and Series and be introduced to Proof by Mathematical Induction. A graphing calculator TI-83 or TI-84 is required for this course.

ALGEBRA 2 (STANDARD LEVEL)

COURSE 231

- Grade 10-12
- 2 semesters
- $\frac{1}{2}$ credit each semester

A rigorous development of algebra with a strong emphasis on proof and logic. Areas covered include working with variables, solving linear equations and inequalities, solving systems of sentences, factoring polynomials, finding roots of polynomial functions, simplifying rational expressions, working with radicals and quadratic functions, complex numbers, solving exponential and logarithmic equations and analyzing these functions, and conic sections. A TI-83/84Plus calculator is required.

ALGEBRA 2 (BASIC LEVEL)

COURSE 232

- Grade 10-12
- 2 semesters
- $\frac{1}{2}$ credit each semester

This basic course contains the topics of a conventional Algebra 2 course including equations and inequalities, linear relations and functions, systems of equations and inequalities, polynomials, working with quadratic equations, quadratic relations and functions. A TI-83/84Plus calculator is required.

PRECALCULUS

COURSE 241

- Grade 11-12
- 2 semesters
- ½ credit each semester

The study of the translation of functions, families of functions including odd and even functions, polynomial, rational, exponential, and logarithmic functions, inverses, circular trigonometric functions, trig identities and proofs. The end of the course starts a study of limits, which leads the student into the appreciation of the derivative in calculus. A TI-83/84Plus calculator is required.

HONORS PRECALCULUS

COURSE 230

- Grade 11-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval
- Prerequisites: Geometry with Statistics, Honors Geometry and Precalculus, or Honors Algebra

Topics covered in this course include the development of polynomial and transcendental and inverse functions, analytic geometry, unit circle trigonometry, trigonometric identities and solving trigonometric equations, polar equations and their graphs, vector analysis and limits as a strong preparation for the study of calculus. The theory of mathematics is discussed in great detail, and students are expected to begin some development of mathematical creativity and thought, as well as maintain accuracy in computation and application. A TI-83/84Plus calculator is required.

TRIGONOMETRY AND MATH TOPICS

COURSE 242

- Grade 12
- 2 semesters
- ½ credit each semester

This course covers fundamental topics in trigonometry including analytic geometry, the unit circle, and basic trigonometric identities. A heavy emphasis on algebraic functions will be highlighted throughout the course. Essential to this course will be a continuous exploration of how techniques and concepts learned can be applied to enhance problem solving abilities in everyday life. A TI-83/84Plus calculator is required.

AP CALCULUS AB

COURSE 240

- Grade 12
- 2 semesters
- ½ AP credit each semester
- Criteria for selection: department approval
- Prerequisite: Precalculus or Honors Precalculus
- AP exam fee

This initial course in Calculus thoroughly covers both the techniques and applications of both differential and integral calculus. All topics from the College Board's suggested content guide for Calculus AB are covered. Students are required to take the AP exam in May.

IB MATHEMATICS SL: ANALYSIS & APPROACHES

COURSE IB512SL

- Grade 12
- 2 semesters
- ½ IB credit each semester
- Prerequisite: Precalculus or Honors Precalculus
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof, for instance the study of sequences and series. The course allows the use of technology, as fluency in relevant mathematical software and hand-held technology is important regardless of choice of course. However, Mathematics: Analysis and Approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments.

IB MATHEMATICS HL: ANALYSIS & APPROACHES

COURSE IB523/524HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- Criteria for selection: department approval
- Prerequisite: Honors Geometry and Precalculus
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.
- In addition to IB assessments, students are required to take the AP Calculus BC Exam in May of their senior year.

This course is designed as the equivalent of a college introductory mathematics course to meet both the AP Course Description recommended by the College Board as well as all requirements of the IB Mathematics HL curriculum, including participation in an individual assessment (IA). Students are required to take the IB assessments and are required to take the AP exam. The IB Math HL curriculum consists of eight core topics, some of which are covered in the student's Algebra II and Geometry courses. Both of these are prerequisites for IB Math HL, and are typically taken in the freshman and sophomore years. The topics in IB Math HL include Algebra, Functions and Equations, Circular Functions and Trigonometry along with two- and three-dimensional Vector Geometry, Matrices (along with Matrix Algebra), Probability and Statistics and Calculus, along with an in-depth study of differential equations and infinite series. The Calculus curriculum includes all topics in the Advanced Placement BC Calculus course through polar, parametric and infinite series with an added emphasis on techniques of writing and solving differential equations.

AP STATISTICS

COURSE 252

- Grade 11-12
- 2 semesters
- ½ AP credit each semester
- Prerequisite or Corequisite: Honors Algebra 2 or Algebra 2 with teacher recommendation.
- AP exam fee.

AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. All students will be required to take the AP Exam in May.

AP COMPUTER SCIENCE PRINCIPLES

COURSE 253

- Grade 12
- 2 semesters
- 1 AP credit
- Prerequisite: Algebra 2 or Precalculus
- AP exam fee

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Students are required to take the AP exam in May.

DEPARTMENT OF SCIENCE

TYPICAL SCIENCE SCOPE AND SEQUENCE

9th GRADE	10th GRADE	11th GRADE	12th GRADE
Physical Science	Biology	Chemistry	Electives
Biology	Chemistry	Physics	Electives
Honors Biology	Honors Chemistry	Honors Physics	Electives
Honors Biology	Honors Chemistry or Honors Physics	IB Science Year 1	IB Science Year 2

BIOLOGY

COURSE 311

- Grade 9-10
- 2 semesters
- ½ credit each semester

This course explores the physical and chemical conditions that sustain and affect all living things. It also investigates the way living things are structured and how they operate in their environment. Classroom discussion, lectures, and laboratory investigations complement each other in creating a strong science background.

HONORS BIOLOGY

COURSE 310

- Grade 9
- 2 semesters
- ½ Honors lab credit each semester

This course explores the unity of structure and function found in the great diversity of living things. Emphasis is on the cell, genetics, biotechnology and evolution. Students are expected to participate individually and collaboratively in labs, class-work, and research.

PHYSICAL SCIENCE

COURSE 309

- Grade 9 - with department approval
- 2 semesters
- ½ lab credit each semester

This course is designed to help the student understand and interpret data gathered in a variety of science settings. The class will focus on lab skills needed for future science classes, report generation, and data analysis with computer applications. Topics will be included from a broad range of the physical sciences including chemistry and physics.

CHEMISTRY

COURSE 331

- Grade 10-11
- 2 semesters
- ½ lab credit each semester

Chemistry is the study of matter, its structure, properties and behavior. Quantitative and qualitative labs support the course material. Topics in this college preparatory course include classifications of matter, nomenclature, reactions, stoichiometry, periodic table organization, atomic theory, and equilibrium. Use of the scientific method and problem solving are stressed.

HONORS CHEMISTRY

COURSE 320

- Grade 10
- 2 semesters
- ½ Honors lab credit each semester
- Criteria for selection; department approval required; completion of, or concurrent enrollment in Honors Algebra 2 or higher

This course is an in-depth study of chemistry for the science-oriented, math-proficient student. Theories are discussed and mathematical skills are quantitatively supported in the lab. Topics include atomic theory, stoichiometry, bonding, gas laws, equilibria, acid/base theory, and oxidation/reduction. This course stresses observation, interpretation, problem-solving, and critical thinking. This course is designed for students that are planning to be enrolled in Honors Physics, AP Chemistry or any HL IB science.

PHYSICS

COURSE 341

- Grade 11-12
- 2 semesters
- ½ lab credit each semester
- Prerequisite/Corequisite: Algebra 2 (231) or higher

Physics is the study of the physical world, and in particular, the interactions of matter and energy. This course is designed for the serious student who desires a college-prep level study of mechanics and energy. Emphasis will be on lab and graphical analysis. Students will be expected to use algebra and trigonometry to solve problems in the course.

HONORS PHYSICS

COURSE 330

- Grade 10-12
- 2 semesters
- ½ Honors lab credit each semester
- Criteria for selection: completion of Honors Algebra 2 or higher (concurrently taking Honors Geometry if entering in Grade 10)

This honors level physics course will be an in-depth study of the fundamentals of all areas of mechanics, energy, electricity and magnetism. It is designed for students who expect to take AP Physics C (Mechanics and Electricity & Magnetism) in the senior year and intend to pursue a science-oriented career. The course emphasizes a laboratory based, self-discovery approach, leading to an understanding of the process of scientific deduction. Algebra and geometry/trigonometry skills are expected to be well above average and will be used rigorously in this course. Students are expected to study and read extensively outside of the class assigned time and must complete a summer assignment before the course begins. Your time and presence outside the school day (before or after the school day) will be required for this class.

AP PHYSICS WITH CALCULUS: ELECTRICITY & MAGNETISM

COURSE 350

- Grade 11-12
- This course is open only to students who have completed a full year of Physics at the minimum level of 341.
- 2 semesters (1 year)
- 1 AP lab credit
- Prerequisites/Requirements: Grade of B+ or higher in Honors Physics, IB Physics, or Physics 341; overall average of at least 3.2 in all math courses. Must be enrolled in the equivalent of Honors Precalc or a Calculus class cumulative GPA of at least 3.2.
- Science department approval required.

This college level second year physics course is the equivalent of the second semester of college physics. It will be an in-depth study of the fundamentals of electricity and magnetism and is designed to give necessary pre-college background for students who wish to succeed in a physics or engineering-oriented career. The course emphasizes a laboratory based, problem solving approach, continuing the student's development in the process of scientific deduction. A thorough previous knowledge of year-one physics, algebra, trigonometry, and graphical analysis is required. This class is distinguished from the IB Physics courses for two reasons: It requires use of Calculus and thus prepares the student for all STEM fields. It delves more deeply into the E&M field content including studies of Gauss' Law, RC/LC circuits, and advanced field theory. Students will be expected to use calculus and the course helps the students learn to apply calculus to physics content. This will be taught during the course and will support the learning in math class. Students may be required to take the AP Physics C E& M exam in May. Students are expected to study outside of the class assigned time for this class. Additional topics in physics beyond the E&M curriculum may be part of the course, time permitting. These topics will include any topics not previously covered in a year-one physics course, including topics in nuclear and atomic physics.

IB BIOLOGY SL

COURSE IB421SL

- Grade 11 or 12
- 2 semesters (1 year)
- ½ IB lab credit each semester
- Criteria for selection; department approval
- Students taking this course who are not pursuing an IB diploma must sit for and submit required IB assessments or the AP Biology exam; registrations and subject fees are applicable.

This course is designed as the equivalent of a college introductory biology course to meet both the AP Course Description recommended by the College Board as well as all requirements of the IB SL Biology curriculum, including participation in an individual assessment (IA). The course will cover biology topics including evolution, ecology, molecular biology, molecular genetics, and organismal biology. The course will have a heavy focus on the development of laboratory skills, quantitative reasoning, and scientific thinking. The course will prepare students to complete BOTH examinations in May, but only the specific test for the chosen course will be required. Because the test registration dates are after the first quarter, students may opt for one or the other or both tests depending on their preferences.

IB CHEMISTRY SL

COURSE IB432SL

- Grade 11 or 12
- 2 semesters
- ½ IB lab credit each semester
- Criteria for selection; department approval
- Prerequisite: Algebra 2, Corequisite: Honors Precalculus
- Students taking this course who are not pursuing an IB diploma must sit for and submit required IB assessments or the AP Chemistry exam; registrations and subject fees are applicable.

This course is designed as the equivalent of a college introductory chemistry course to meet both the AP Course Description recommended by the College Board as well as all requirements of the IB SL Chemistry curriculum, including participation in an individual assessment (IA). IB Chemistry SL is a challenging one-year course requiring 110 hours of coursework and 40 hours of practical (lab) work. Students will examine the core topics of chemistry, including measurement and data processing, quantitative chemistry, atomic structure, periodicity, bonding, acids and bases, oxidation-reduction reactions, energetics, kinetics, equilibrium, organic chemistry, and one chosen topic area that will allow for the application and utilization of theories learned. The course is laboratory-based, and students will be required to research, organize, write, and present scientific concepts. There is an expectation that students will need to spend some time outside of the normal school hours to complete laboratory requirements. It is recommended that students enter this course from the honors science track. If not currently in honors summer homework may be a requirement.

IB CHEMISTRY HL

COURSE IB433/434HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB lab credit each semester
- Criteria for selection; department approval
- Corequisite: Honors Precalculus
- Students taking this course who are not pursuing an IB diploma must sit for and submit all required IB assessments; registrations and subject fees are applicable.

This two-year course requires 180 hours of coursework and 60 hours of practical (lab) work and combines academic study with the acquisition of investigational skills through the experimental approach. Students will examine core and higher level topics including measurement and data processing, quantitative chemistry, atomic structure, periodicity, bonding, acids and bases, oxidation reduction reactions, energetics, kinetics, equilibrium, organic chemistry, and one chosen topic areas that will allow for the application and utilization of theories learned. The course is a laboratory based and students will be required to research, organize, write and present scientific concepts. Students are expected to apply mathematical concepts mastered in Algebra II for the first year and are currently enrolled in Honors Precalculus or HL Math as a junior. It is highly recommended that students enter this course from the honors science track.

IB PHYSICS SL

COURSE IB441/442SL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB lab credit each semester
- Criteria for selection; department approval
- Corequisite: Precalculus or Honors Precalculus
- Students taking this course who are not pursuing an IB diploma must sit for and submit all required IB assessments; registrations and subject fees are applicable.

IB Physics SL is a comprehensive two-year pre-university course that is designed to allow students to obtain a secure knowledge of the physical models that are used to explain motion, force, energy, and the interaction of objects in the physical universe. By the end of the course, students will have a broad understanding of the various fields encompassed by physics, including topics in modern physics. Students will continue to be introduced to the way scientists work and communicate with each other by performing laboratory experiments, using the scientific method, and writing laboratory reports. Students will spend more than 40 hours (over 25% of instruction time) performing these laboratory experiments.

IB PHYSICS HL

COURSE IB443HL/IB444HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB lab credit each semester
- Criteria for selection; department approval
- Corequisite: IB HL Math or AB Calculus track
- Students taking this course who are not pursuing an IB diploma must sit for and submit all required IB assessments; registrations and subject fees are applicable.

IB HL Physics HL is a two-year course requiring 180 hours of coursework and 60 hours of practical (lab) work. This course combines academic study with the acquisition of investigation skills through the experimental approach. Students will examine topics in: Measurements and uncertainties, Mechanics, Thermal physics, Waves, Electricity and magnetism, Circular motion and gravitation, Atomic, nuclear and particle physics, Energy production, Wave phenomena, Fields, Electromagnetic induction, Quantum and nuclear physics, and one additional option. The course is a laboratory based and students will be required to research, organize, write, and present scientific concepts. It is highly recommended that students enter this course from the honors science track. Students are expected to apply mathematical concepts mastered in Algebra II in the first year and be currently enrolled in Honors Precalculus or HL Math as a junior.

ENVIRONMENTAL SCIENCE

COURSE 360

- Grade 12
- 2 semesters
- ½ lab credit each semester
- Prerequisites: Biology, Chemistry and Physics

This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study.

HONORS ENVIRONMENTAL SCIENCE

COURSE 360H

- Grade 12
- 2 semesters
- ½ Honors lab credit each semester
- Prerequisite: Biology, Chemistry and Physics
- Prerequisite/Corequisite: Precalculus/Data Science

Students enrolled in this course will be exposed to innovative problem solving methods for a wide range of environmental topics. Students will look to nature for modernized solutions to environmental problems by utilizing principles rooted in the field of biomimicry. Students will be provided the opportunity to explore the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Applications and analysis of data related to the environmental topics studied will be a cornerstone of the course.

ANATOMY & PHYSIOLOGY

COURSE 361

- Grade 12
- 1 semester
- ½ lab credit
- Prerequisites: Biology, Chemistry and Physics

This course is designed for seniors who desire to develop an understanding and appreciation of the human body. This course is designed to be an introductory study of the human body for students with an interest in pursuing a career in a health-related field. Topics include anatomical structures, physiological systems, and body functions. Students will acquire skills used in the classification of data, experience in oral and written communication of data, and skills in drawing logical inferences and predicting outcomes. Students will apply the principle of physiology to human health and evaluate the applications and career implications of physiology and anatomy principles

SPORTS MEDICINE

COURSE 362

- Grade 12
- 1 semester
- ½ lab credit
- Prerequisites: Biology, Chemistry and Physics

Have you ever asked yourself the following questions- Just who is Tommy John, and why is his surgery so famous in baseball? What is an Achilles tendon, and why is it so hard to recover when you tear it? Why can you walk off the field right after you have torn your ACL? What happened when Willis McGahee's knee bent backwards? Why drink chocolate milk after practice? The sports medicine elective will dive into the science behind some famous sports injuries and how proper nutrition and exercise can help prevent injuries from occurring. Students will acquire skills used in oral and written communication of data, and skills in drawing logical inferences and predicting outcomes. This lab based course will expose students to activities related to how the human body functions and responds to injury and recovery.

DEPARTMENT OF LANGUAGE ACQUISITION

FRENCH 1

COURSE 431

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester

This is an introductory course for students who are interested in the French language and cultures of the francophone world. The course objective is to obtain a good proficiency in the areas of speaking, listening, reading and writing. Students will learn to communicate in everyday situations through skits, dialogues, projects and group activities. By the end of the first year, students will be able to communicate the following: introductions, invitations, likes, preferences, daily school life discussion, answer questions (age, origin, nationality, profession), make plans with others (time, location) and order food. The students will begin to grasp the linguistic similarities and differences between English and French. This course also introduces students to French-speaking cultures through songs, short stories and films that help make connections between French-speaking cultures and their own.

HONORS FRENCH 1

COURSE 431H

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester

This course is intended for highly motivated, beginner-level students who are prepared to learn French at an accelerated pace. The objective is to focus on obtaining a high proficiency in the areas of speaking, listening, reading and writing. Students will learn to communicate in everyday situations through skits, dialogues, projects and group activities. By the end of the first year on the honors track, students will be able to communicate the following: introductions, invitations, likes, preferences, daily school life discussion, answer questions (age, origin, nationality, profession), make plans with others (time, location), order food, discuss shopping habits and home life. Students will obtain the ability to express simple opinions and ideas. The students will begin to grasp the linguistic similarities and differences between English and French. This course also introduces students to French-speaking cultures through songs, short stories and films that help make connections between French-speaking cultures and their own.

HONORS FRENCH 2

COURSE 432H

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester

This course is intended for highly motivated, intermediate-level students who are prepared to continue learning French at an accelerated pace. The objective is to focus on obtaining a high proficiency in the areas of speaking, listening, reading and writing. By the end of the second year of the honors track, students will be able to communicate and dialogue in the following areas: holidays, personal opinions, inquire about future plans, ask for and receive directions, voice complaints, recount past events, make suggestions, express looking forward to an event, communicate in a service setting and navigate international trips. Along with building a strong understanding of the present and past tense, students will learn various types of irregular verbs of the two tenses. They will also use direct and indirect object pronouns, reflexive verbs and gain the ability to differentiate between the passé composé and the imparfait tenses in all four proficiency areas of second language acquisition. This course will continue to include the study of various aspects of franco-phone culture.

IB FRENCH SL

COURSE IB231/232SL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- Criteria for selection: department approval
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

While acquiring a language, students will explore the culture(s) connected to it. The focus of the IB French SL courses is language acquisition and intercultural understanding. The syllabus approaches the learning of language through meaning. Through the study of the five themes (social organization, human ingenuity, experiences, identities and sharing the planet), students build the necessary skills to reach the assessment objectives of the language course through the expansion of their receptive, productive and interactive skills. Entering these classes requires a good understanding of spoken French as well as the ability to write and express oneself in the language. Class discussions will be conducted in French.

LATIN 1

COURSE 411

- Grade 9-12
- 2 semesters
- ½ credit each semester

This course is an introduction to classical Latin: its pronunciation, vocabulary, and grammar. Emphasis will be on reading comprehension and the Latin derivation of English words, the study of Latin roots in English, and the sizable contribution of Latin to the structure and lexicon of the English language. Students will study ancient history and geography, classical mythology, and Roman culture with a view to developing a greater appreciation of western civilization in general and their American heritage in particular, which was inspired by Greek and Roman principles and practices in addition to being based on classical models.

HONORS LATIN 1

COURSE 411H

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

This course is an introduction to classical Latin which includes all subject matter covered in Latin 1. However, its pace is brisker than that of the standard Latin course, and members of the class will explore all topics in greater depth. While it presupposes no prior background in Latin, the course will enable students to learn significantly more grammar and vocabulary than they would in standard Latin 1. In addition, they will explore Greek myth and Roman history in greater depth and develop a familiarity with Latin phrases used in English. The ultimate aim of the course is to equip students to read the great Latin classics of Julius Caesar, Cicero, Pliny, Ovid, Vergil, Horace, and Catullus by the end of a second year of Honors Latin or by the start of Honors or IB in their third year.

LATIN 2

COURSE 412

- Grade 10-12
- 2 semesters
- ½ credit each semester

This course is a review and continuation of Latin 1. More complex grammatical concepts, including pronouns, comparative and superlative adjectives and participles. Students' study of mythology will be more in-depth as they translate passages about the Greek gods and heroes.

HONORS LATIN 2

COURSE 412H

- Grade 10-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

This course is a review and continuation of Honors Latin 1. Complex grammatical concepts, including infinitive phrases and participles will be studied at an accelerated rate. Conditional sentences, gerundive phrases, and subjunctive clauses, will be introduced. In the fourth quarter, students will be exposed to selections from Julius Caesar's Gallic War or readings of comparable difficulty.

LATIN 3

COURSE 413

- Grade 11-12
- 2 semesters
- ½ credit each semester
- Criteria for selection: department approval

This course continues the study of Latin grammar and vocabulary and introduces a survey of Latin literature, some of it from original sources, some adapted. Students will gain exposure to a variety of authors: the epic poetry of Vergil or Ovid, the love poems of Catullus and Horace, and the war stories of Julius Caesar.

HONORS LATIN 3

COURSE 413H

- Grade 11-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

This course is designed to begin preparing students for the AP Exam in their final year. It includes an introduction to original, unadapted Latin literature and readings from such prose authors as Julius Caesar, Cicero, and Pliny and from the epic verse of poets like Ovid and Vergil. Exercises in reading comprehension will develop students' ability to read, translate, and comprehend Latin prose and poetry. As they explore the language, literature, and culture of ancient Rome, students will deepen their understanding of the inextricable link between culture and language and of the continuing influence of ancient cultures on our modern world. Additional topics will include Roman oratory, history, government, and architecture. Members of the class will investigate these subjects by reading and discussing the lives and background of the various authors whose writings they explore. Satisfactory completion of Honors Latin II is a prerequisite for this advanced language course.

HONORS LATIN 4

COURSE 414H

- Grade 12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

The purpose of this course is to familiarize ourselves with the works, content, language, and style of some of the most famous Latin authors of the First Centuries BC and AD. Honors Latin 4 will synthesize all of the material covered in previous years for the purpose of translating and analyzing a few of the most important and influential literary works in the history of the Western World. Students will select the authors that they'd like to focus on, and their options will include but not be limited to such notable authors as Catullus, Ovid, Cicero, Horace, Vergil, Caesar, Pliny the Younger, and Lucretius. In addition to improving our skills with the language, we will also learn a great deal about literature and poetry generally through studying and learning to identify many literary and rhetorical devices, as well as becoming acquainted with several different poetic meters and styles of prose. As a result of these studies, the history, religion, mythology, and culture of ancient Rome will feature much more prominently in this course.

IB LATIN SL

COURSE IB211/212SL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- Criteria for selection: department approval
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

The Standard Level coursework will emphasize developing students' ability to read, translate, and comprehend selections of original, unadapted Latin prose and poetry. Students will also explore the language, literature, and culture of ancient Rome in an effort to deepen their understanding of the inextricable link between culture and language and of the continuing influence of ancient cultures on our modern world. Topics in the first year include Roman oratory, history, government, and architecture. Students will explore these topics by reading and discussing various Roman authors such as Cicero, Catullus, Horace, Vergil, and Ovid. During the second year, students will continue their study of Latin, focusing on the epic poetry of Vergil, the lyric poetry of Catullus, and the odes of Horace. Satisfactory completion of Honors Latin II is a prerequisite for this advanced language course.

SPANISH 1

COURSE 421

- Grade 9-12
- 2 semesters
- ½ credit each semester

This introductory course is designed for students with little to no background in Spanish. A foundational course, it presents a structured, proficiency-based approach to mastering the four skills of a second language: speaking, listening, reading and writing. Students will acquire a strong foundation for communicating basic information (exchanging greetings, saying where they are from, counting and saying the alphabet, telling time, describing weather, etc.) as well as the ability to talk and write about what he and others are like and what they like to do in and out of school. By listening to and reading comprehensible Spanish in class, the student will start to imitate the language and express his ideas. Cultural content is interwoven throughout the course so students can start to compare and contrast their own culture with the cultures of the Spanish speaking world.

HONORS SPANISH 1

COURSE 421H

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

This is an accelerated course intended for the highly motivated student who has either: a) a desire to challenge himself with an honors language course and has scored high on the English Placement test; b) an intention to participate in the International Baccalaureate Program; or c) some exposure to Spanish in grade school but not enough to test out of level one. The course presents a structured, proficiency-based approach to mastering the four skills of a second language: speaking, listening, reading and writing. Students will acquire a strong foundation for communicating basic information (exchanging greetings, saying where you are from, counting and saying the alphabet, telling time, describing weather, etc.) as well as the ability to talk and write about what he and others are like and what they like to do in and out of school. By listening to and reading comprehensible Spanish in class, the student will start to imitate the language and express his ideas. Cultural content is interwoven throughout the course so students can start to compare and contrast their own culture with the cultures of the Spanish speaking world.

SPANISH 2

COURSE 422

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester

This course utilizes the base the student gained in Spanish 1 to further his ability to read, write, speak and understand Spanish. By listening to and reading abundant comprehensible examples of the language, he will start to put together longer, more complex sentences in both the present and past tenses. He will be able to start expressing simple ideas and opinions, tell short stories, narrate events and participate in conversations used in daily life. He will explore cultural themes like leisure and sports activities, communities, identities, and entertainment and be able to express his views and make comparisons between his own culture and the cultures of Spanish speaking countries.

HONORS SPANISH 2

COURSE 422H

- Grade 9-12
- 2 semesters
- ½ Honors credit each semester
- Department approval required

This accelerated course is for the highly motivated student. It will expand his ability to communicate in Spanish in written and spoken forms while strengthening his verbal, auditory, and cultural understanding. By listening to and reading abundant comprehensible examples of the language, he will start to put together longer, more complex sentences in both the present and past tenses. He will be able to start expressing simple ideas and opinions, tell short stories, narrate events and participate in conversations used in daily life. He will explore cultural themes like leisure and sports activities, communities, identities, and entertainment and be able to express his views and make comparisons between his own culture and the cultures of Spanish speaking countries.

SPANISH 3

COURSE 423

- Grade 10-12
- 2 semesters
- ½ credit each semester
- Criteria for selection: department approval

In this course, students will refine and reinforce all the grammatical and thematic topics previously acquired in Spanish 1 and 2. In addition, the students will expand their knowledge of past tenses (preterite and imperfect), future tense, commands, and will be introduced to the subjunctive mood. By the end of the course, the students should be able to express ideas and opinions related to their childhood, family relations and events, vacations and nature, preparing meals, media, and professions.

HONORS SPANISH 3

COURSE 423H

- Grade 10-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval

This accelerated course requires the student to communicate both orally and in writing with advanced grammar and sophisticated vocabulary. The student will continue to refine the use of preterite vs. imperfect past tense, explore more situations that require the use of the subjunctive, learn to make compound tenses, and to speak in the future tense about real and hypothetical events. Topics covered range from traditions and national identity; technology and its effects; education careers and lifestyles; and global challenges and environmental issues.

IB SPANISH SL

COURSE IB221/222SL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- Criteria for selection: department approval
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This course enables the second language learner to understand straightforward written and spoken language; to communicate—orally and in writing—in a variety of styles and registers, about given topics; and to engage interactively in culturally appropriate conversations. These skills will be advanced as the students explore the themes of social relationships, communication and media, global issues, cultural diversity, customs and traditions, health, leisure, science, and technology in the Spanish-speaking world.

HONORS SPANISH 4

COURSE 424H

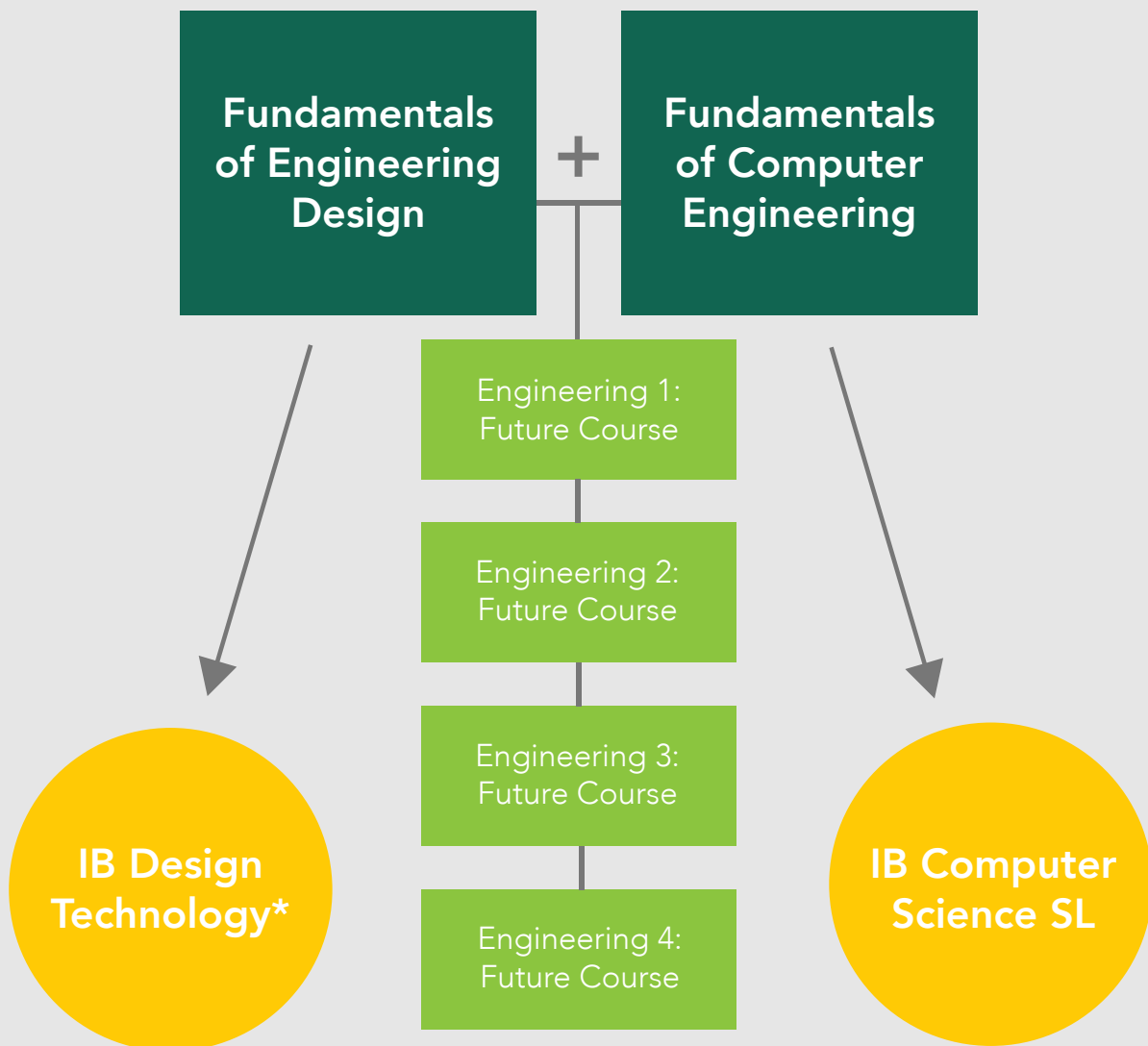
- Grade 11-12
- 2 semesters
- ½ Honors credit each semester
- Criteria for selection: department approval, C+ or higher in Spanish 3; C or higher in Honors Spanish 3

This course is designed to interest and challenge capable students who wish to develop a greater degree of proficiency in the Spanish language and further their knowledge about the world around us. The basic elements of grammar are reviewed, refined, and practiced; however, the course aims to develop the students' understanding of culture, civilization, and cinema and to broaden their ability to communicate in Spanish. Class sessions will be conducted in Spanish.

DEPARTMENT OF ENGINEERING AND TECHNOLOGY

All courses in this department are highly project-driven. Students will be expected to document the methods used to complete assignments and be able to draw inferences from those methods to apply skills in new and innovative ways.

ENGINEERING DEPARTMENT PATHWAY



*Prerequisite is for IB Design Technology SL only.
There is no prerequisite for IB Design Technology HL.

FUNDAMENTALS OF ENGINEERING DESIGN

COURSE 608

- Grade 9-12
- 1 semester
- ½ credit
- Supply fee: \$30.00
- This course, along with Fundamentals of Computer Engineering, are prerequisites for Intermediate Engineering 1. This course is also a prerequisite for IB Design Technology SL.

This course focuses on solving broadly defined Engineering problems with multiple viable solutions. Students will complete scaled technical drawings, and be introduced to 2D and 3D computer aided design (CAD) software. Through a static structure project and a model rocket project students will complete the full Engineering Design Cycle. No prior CAD or design experience is required, although experienced students are welcome.

FUNDAMENTALS OF COMPUTER ENGINEERING

COURSE 573

- Grade 9-12
- 1 semester
- ½ credit
- Supply fee: \$30.00
- This course, along with Fundamentals of Engineering Design, are prerequisites for Intermediate Engineering 1. This course is also a prerequisite for IB Computer Science SL.

Students will learn the fundamentals of computer programming, algorithmic thinking, and application development. Concepts will be implemented using modern programming languages and an integrated development environment (IDE). This course also incorporates circuit design, electronics, and embedded systems programming. Students will build and program a personal electronic device. No prior programming or electronics experience is required, although experienced students are welcome.

INTERMEDIATE ENGINEERING 1

COURSE 671

- Grade 10-12
- 1 semesters
- ½ credit
- Supply fee: \$30.00
- Prerequisites: Fundamentals of Engineering Design and Fundamentals of Computer Engineering

This course will merge the concepts from Fundamentals of Computer Engineering and Fundamentals of Engineering Design. Students will engage in collaborative projects utilizing advanced design cycle concepts. The projects will focus on design thinking, computational analysis, and electronics. The students will utilize various skill sets from different disciplines of Engineering.

INTERMEDIATE ENGINEERING 2

COURSE 672

- Grade 10-12
- 1 semester
- ½ credit
- Supply fee: \$30.00
- Prerequisites: Intermediate Engineering 1

Students will explore deeper into concepts previously learned in prior three courses. Projects will focus on the theory behind the design of advanced systems. Students will further explore concepts related to specific Engineering disciplines, such as: civil engineering, electrical engineering, mechanical engineering, material science, etc.

IB COMPUTER SCIENCE SL

COURSE IB470SL

- Grade 11-12
- 2 semesters (1 year)
- ½ IB credit each semester
- Prerequisite: Computer Science 1: App Development, Fundamentals of Computer Engineering, or department approval
- Criteria for selection: department approval for those not pursuing an IB diploma
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This course is designed as the equivalent of a college introductory computer science course that meets all requirements of the IB SL computer science curriculum, including a student-driven final project that involves the design and development of software. Some examples include: a data-driven mobile application, a software-as-a-service web application, or a 3D mixed reality simulation. This course consists of five core topics, some of which are covered in the introductory computer science course, Computer Science I: App Development, which is a prerequisite for IB Computer Science SL. The topics in this course include system fundamentals, computer organization, networks, computational thinking, problem-solving and programming, and web development. Programming concepts will be implemented using the C# programming language, Microsoft Visual Studio, ASP.Net Core and the Xamarin mobile framework.

AP COMPUTER SCIENCE PRINCIPLES

COURSE 253

- Grade 12
- 2 semesters
- 1 AP credit
- Prerequisite: Algebra 2 or Precalculus
- AP exam fee

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Students are required to take the AP exam in May.

INDEPENDENT STUDY COMPUTER SCIENCE

COURSE 596

- Grade 11-12
- 2 semesters (1 year)
- Criteria for selection; department approval

Independent Study in Computer Science is a 2-semester guided independent survey of various topics in computer science. The student will select from a list of available categories and complete a self-study curriculum based in their choices. Each topic will include a personal project to be researched and completed at the end of each semester. Available categories of study include but are not limited to the following topics: Artificial intelligence, augmented and virtual reality, security, and embedded systems development. Students will be expected to commit volunteer hours to a given technology related non-profit organizations.

IB DESIGN TECHNOLOGY SL

COURSE IB465SL

- Grade 11-12
- 2 semesters (1 year)
- ½ IB credit each semester
- Criteria for selection: department approval for those not pursuing an IB diploma
- Prerequisite: Fundamentals of Engineering Design
- This course may be taken to fulfill a Fine Arts credit.
- Supply fee: \$50.00
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

In this course, students will survey important factors that direct the successful design of products and processes in our world. Scientific and mathematical principles that affect design, such as strength of materials, are considered within culturally defined contexts that include considerations of cost, safety, appearance, and environmental impact, as well as availability of manufacturing technologies. Students will work individually and in teams to evaluate, refine and create models of effective designs.

IB DESIGN TECHNOLOGY HL

COURSE IB463/464HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- This course may be taken to fulfill a Fine Arts credit.
- Supply fee: \$100.00
- Criteria for selection: department approval for those not pursuing an IB diploma
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This four-semester course is an advanced survey in product development and their design and manufacture. Students are expected to design a product from beginning to end. Analysis of markets, surveys of target demographics, properties of natural and synthetic materials, application manufacturing processes, responsibilities and ethics of design, national and global standardization, and product lifecycle analysis are all covered in this course. Students will study concepts relating to energy generation (traditional and alternative), analysis of structures and how forces act upon materials, advanced manufacturing (welding, CNC manufacture, 3D printing, etc.) and sustainable development and product design for developing regions around the world.

INDEPENDENT STUDY ROBOTICS

COURSE 610

- Grade 11-12
- 2 semesters (1 year)
- Criteria for selection: department approval

Independent Study in Robotics is a 2-semester guided independent survey of the organization and management of a FIRST Robotics team. Students enrolled in this class will be expected to take leadership positions on the robotics team and participate in competitions, events, and meetings both after school and during community period. Students will serve as project managers for the team and will be responsible for identifying and managing tasks for all members of the team.

DEPARTMENT OF FINE ARTS

Each student is required to earn ½ credit in the Visual Arts, Film, and/or Performing Arts and Music. The following courses may be taken to fulfill a Fine Arts requirement: IB Design Technology SL; IB Design Technology HL.

BEGINNING POTTERY & SCULPTURE

COURSE 864

- Grade 10-12
- 1 semester
- ½ credit
- Supply fee: \$40.00

Students will learn basic hand-building techniques. The students will make projects using coil, slab, and solid construction. Different finishing/glazing procedures will be taught.

ADVANCED POTTERY

COURSE 867

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Beginning Pottery/Sculpture
- Supply fee: \$40.00

Students will spend the semester creating functional pottery. The potter's wheel will be emphasized, as well as hand-building methods of slab and coil. Surface treatments, the elements of design, and glazing will be taught through assigned projects. Projects include vessel series created on the potter's wheel, coil pots, and slab boxes.

ADVANCED SCULPTURE

COURSE 872

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Beginning Pottery & Sculpture
- Supply fee: \$40.00

Students will continue to develop their skills and creativity through creating three-dimensional artwork using clay. Projects will include self-portraits, furniture, pop art, and reproductions.

CERAMICS 1

COURSE ARTS181

- Grade 11-12
- 1 semester
- 1 credit
- Prerequisite: Beginning Pottery & Sculpture
- College Credit Plus dual enrollment is available for students who qualify.
- Admission to Lorain County Community College (LCCC) is a requirement.

An introduction to working with clay in both hand building and wheel methods, including surface decoration and glazing.

BEGINNING DRAWING AND DESIGN

COURSE 860

- Grade 10-12
- 1 semester
- ½ credit
- Supply fee: \$40.00

This is an introductory drawing course with an emphasis on mastering materials and techniques. Students will draw from imagination and life, using pencil, charcoal, and conte crayon. Students who have taken the one- quarter drawing class in the past may enroll in this full semester course.

PAINTING

COURSE 861

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Beginning Drawing and Design
- Supply fee: \$40.00

Students will be working with acrylic paints. Color theory, the principles of design, and painting techniques will be introduced. Students will be encouraged to begin to develop their own style as they continue to explore the possibilities of acrylic paint. Experimentation with non-traditional painting surfaces will be attempted, breaking away from the limitations of two-dimensional planes.

ADVANCED PAINTING

COURSE 870

- Grade 11-12
- 1 semester
- ½ credit
- Prerequisite: Painting
- Supply fee: \$40.00

Students will develop and refine their painting skills using gels and various texturing methods and will be challenged to produce portfolio quality paintings. With instructor approval, this course may be repeated by advanced students wishing to produce portfolio-grade works.

ADVERTISING AND DESIGN

COURSE 853

- Grade 10-12
- 1 semester
- ½ credit
- Supply fee: \$40.00

Students will be exposed to styles and principles of designing advertising and products and will create advertisements, logos, and product labels. This course will include the use of computer graphic programs for design and free hand drawing software applications. Images will be compiled into a portfolio and stored digitally for college credit or publishing in the future.

SPORTS ART

COURSE 874

- Grade 10-12
- 1 semester
- ½ credit
- Supply fee: \$40.00

Students will study principles in sports art, such as motion and the human figure. Student projects will be both 2-dimensional and 3-dimensional.

ADVANCED SPORTS ART

COURSE 875

- Grade 10-12
- 1 semester
- ½ credit
- Criteria for selection; department approval
- Prerequisite: Sports Art
- Supply fee: \$40.00

Students will study principles in sports art, such as motion and the human figure. Student projects will learn and utilize more advanced art mediums to accomplish their desired images of choice, such as ink, watercolor pencil, and acrylic paint.

PORTFOLIO PREPARATION

COURSE 878

- Grade 11-12
- 1 semester
- ½ credit
- Criteria for selection; department approval
- Supply fee: \$40.00

Students will learn to develop, select, categorize and document their artworks for review in college applications for art school.

DEPARTMENT OF PERFORMING ARTS AND MUSIC

MUSIC THEORY

COURSE 880

- Grade 9-12
- 1 semester
- ½ credit
- Criteria for selection: department approval

This course is designed for serious music students who wish to study music notation and structure with an emphasis on ear training and notational skills necessary to prepare them for advanced study of music in college or IB Music Perspectives.

HISTORY OF ROCK & ROLL

COURSE 884

- Grade 9-12
- 1 semester
- ½ credit

This introductory course traces the history of rock and roll music from its roots in African and European traditions to its diversification and distinct styles, as well as its impact on music and culture worldwide. The focus will be on understanding music and basic musical concepts through rock n' roll, as well as sociological and historical concepts relevant to the genres studied. Students will be expected to write about music, understand connections in music history, develop aural skills, and complete listening assignments.

INDEPENDENT STUDY IN MUSIC

COURSE 890

- Grade 10-12
- 1 semester
- ½ credit
- Criteria for selection: department approval

Advanced study in music for the student who wishes to pursue music in college. Emphasis may be placed in audition preparation, theory, music technology, composition or music history/literature. Students may sign up for the course more than once.

IB MUSIC PERSPECTIVES SL

COURSE IB611SL

- Grade 11-12
- 2 semesters
- ½ IB credit each semester
- Criteria for selection; department approval for those not pursuing an IB diploma
- Students taking this course but are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This course examines the diversity of music in culture and time. The elements of music will be explored through a survey of Western Music from the Middle Ages to the present along with traditional and contemporary global music. Students will be prepared to take the Standard Level International Baccalaureate Music Exam. The course has two compulsory parts: Music Production and Musical Perception. Music Production options include Solo Performance (private instruction on voice or an instrument with recitals required), Group Performance option (active membership in a school or community performance group with concerts required), or Creating (composition/arranging). Musical Perception includes analysis of an IB Prescribed Work, analysis of musical genres and styles and creation of a Musical Investigation Multimedia Presentation.

IB MUSIC PERSPECTIVES HL

COURSE IB612HL/IB613HL

- Grade 11-12
- 4 semesters
- ½ IB credit each semester
- Criteria for selection: department approval for those not pursuing an IB diploma.
- Students taking this course who are not pursuing an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

This comprehensive course examines the diversity of music in culture. Students' understanding of musical elements increases through analysis of Western and global music. Students study music theory, performance practices, historical context and technology as it relates to music creation. A portfolio of student projects including musical analyses, original compositions and audio recordings serve as the means for IB assessment rather than an exam.

STRING ORCHESTRA

COURSE 898

- Grade 9-12
- 2 semesters
- ½ credit (meets every other day, alternating with a study hall)
- This course may be taken more than once.
- Criteria for selection: department approval.

Students learn techniques for playing orchestral string instruments (violin, viola, cello, and bass) and to perform varied orchestral literature. The combined orchestra performs at several concerts. Concert attendance (3 Sundays in the spring semester) is mandatory. Emphasis is placed on ensemble performance techniques.

CHOIR

COURSE 893

- Grade 9-12
- 2 semesters
- ½ credit each semester
- This course may be taken more than once.

This vocal music ensemble studies liturgical, concert and popular literature and performs for holiday programs, concerts, and special events. Students learn individual and ensemble singing techniques. Attendance at performances is mandatory.

JAZZ COMBO

COURSE 895

- Grade 9-12
- 2 semesters
- ½ credit each semester
- Criteria for selection; approval of director.
- This course may be taken more than once.

This instrumental music class serves to teach jazz improvisation to players of any instrument. Students will be expected to learn music theory, notation, improvisation, and aural skills. Listening is also an integral component to the class. The Jazz Combo performs in concert and at special events. Attendance at performances is mandatory.

CONCERT BAND

COURSE 892

- Grade 9-12
- 2 semesters
- ½ credit each semester
- Criteria for selection: approval of director.
- This course may be taken more than once.

This course studies the fundamentals of playing wind and percussion instruments. No prior experience is necessary. Students will work towards chamber music performances throughout the year. Students will also be encouraged to perform at OMEA solo and ensemble in late January or early February. Students in this class should expect to perform with the Symphonic Band.

SYMPHONIC BAND

COURSE 896

- Grade 9-12
- Meets after school three days a week beginning in Quarter 2 (November) and ending in Quarter 4 (May)
- ½ credit each semester
- Criteria for selection: approval of director.
- This course may be taken more than once.
- This course may be taken as pass/fail (modified grading) with approval of the director prior to beginning the course.

This course is open to all students at St. Edward, St. Joseph Academy, and Magnificat High School that can play a wind or percussion instrument. This instrumental music ensemble studies concert literature and performs at the OMEA Large Group Assessment and in concert during the third and fourth quarters (3 Sundays). Attendance at rehearsal is paramount, students will be expected to show improvement throughout the semester.

MARCHING BAND

COURSE 899

- Grade 9-12
- Summer and after school/weekends in the first quarter and beginning of the second quarter
- ¼ credit
- Criteria for selection; approval of director required.
- This course may be taken as pass/fail (modified grading) with approval of the director prior to beginning the course.
- This course may be taken more than once.

Marching Band combines musical performance and visual movement. Marching band is open to all winds and percussionists with prior experience and colorguard by audition in the spring. The marching band performs at all home and away football games, several parades, and band competitions throughout the summer and fall. Rehearsals begin in June prior to the start of the school year. Band camp is held the last week of July and the first full week of August and is mandatory for all students enrolled in the course. During the football season, full band rehearsals are held on a regular basis on Tuesday through Friday afternoons. One rehearsal per week will be from 6:30 until 9:00 pm. The dates and times of rehearsals and performances are published to www.sehs.net/pacalendar before the start of the course. Open to students of Catholic girls' high schools with the additional approval of the school principal, music director, and parent. Attendance at rehearsals is paramount, students will be expected to show improvement throughout the semester. Attendance at all

TECHNICAL THEATER

COURSE 886

- Grade 10-12
- After school
- ¼ credit
- Criteria for selection: approval of director.
- This course may be taken for pass/fail credit.

Open to sophomores, juniors and seniors with leadership roles in stage or technical crews. (Participation in at least 2 previous shows is required.) Students will explore details of set design and construction, lighting, sound and directing a show. Course is taken in conjunction with the fall and spring theatrical productions. A student may sign up for the course more than once.

THEATRICAL PERFORMANCE

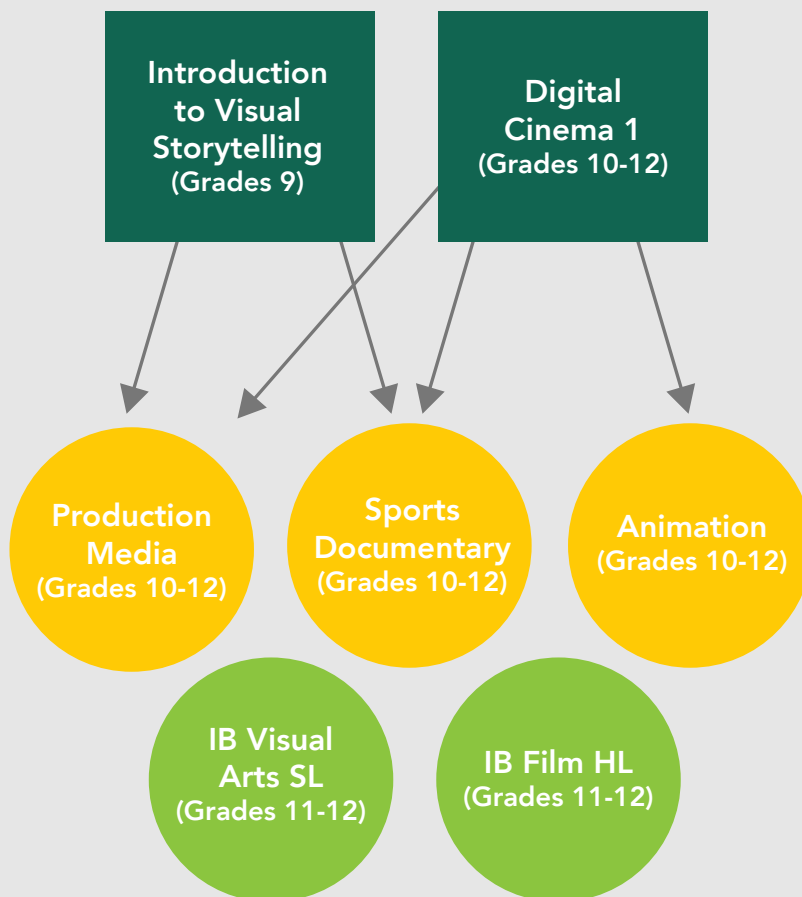
COURSE 887

- Grade 10-12
- After school
- ¼ credit
- Criteria for selection: approval of director.
- This course may be taken for pass/fail credit.

Open to students in grades 9-12 with principal roles in stage productions. Acting, stage movement, singing, and dancing will be explored as part of a collaborative stage presentation. This course is taken in conjunction with the fall and spring theatrical productions. A student may sign up for the course more than once.

DEPARTMENT OF FILM

FILM ELECTIVE PATHWAY



INTRODUCTION TO FILMMAKING & VISUAL STORYTELLING

COURSE 830

- Grade 9
- 1 semester
- ½ credit

In the era of Netflix and emerging augmented/virtual reality, Introduction to Visual Storytelling pledges to make the young men of St. Edward more aware of how images shape our identities, relationships, and the very environments in which we live. More specifically, students in FA 830 will explore how films, television programs, graphic novels, social media, advertisements, etc. influence our thoughts and emotions; in turn, we'll collaborate to create comics, a short film, as well as a variety of other 21st century visual stories to better understand how deeply images affect our lives.

DIGITAL CINEMA 1

COURSE 833

- Grade 10-12
- 1 semester
- ½ credit

This class is designed to empower young filmmakers to: 1.) thoughtfully use cinematography to tell original, visually-based stories; 2.) write compelling, three-act screenplays with clear "character arcs", and; 3.) familiarize themselves with the fundamentals related to audio/video hardware and software. Throughout this course, students will be provided with the academic tools that will enable them to begin viewing film as a powerful storytelling medium – more specifically we will critically view, write about, and seminar on engaging contemporary works within the coming-of-age and horror/suspense genres. And we will do so not only to develop an appreciation for film and an ability to thoughtfully discuss works in the medium, but also to ground and inspire our own original short films, the creation, production, and editing of which will comprise the bulk of the course.\

ANIMATION 1

COURSE 835

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Digital Cinema 1

This course will allow young artists at St. Edward to experiment with one of the most relevant and powerful 21st century storytelling techniques: animation. Students will apply visual storytelling techniques first learned in Digital Cinema 1 in order to create a short, animated film within the course of a single semester. Through these films students will demonstrate their newfound command over the twelve principles of animation, as well as style, character, conflict, and their own imaginations. Those who enroll will have access to both the powerful hardware (iMacs) and software (Blender, Pixar in A Box) necessary to design a compelling, unique work.

SPORTS DOCUMENTARY

COURSE 836

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Introduction to Visual Storytelling **OR** Digital Cinema 1

This course will allow young filmmakers to focus exclusively on documentaries that feature athletes and the conflicts unique to their lives; in turn, we will study feature-length (i.e. Hoop Dreams), episodic (i.e. 30 for 30's) and short (i.e. Always A Fire) documentaries appropriate for this class. Students will study visual storytelling techniques and produce a highly refined supershort documentary—in the "60 Second Supershort" style—as well as one 3-4-minute capstone sports documentary. In doing so, students will have access to prosumer (professional grade) digital film cameras, professional audio equipment, and editing software, (Final Cut Pro).

PRODUCING DIGITAL MEDIA FOR THE 21st CENTURY

COURSE 837

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Introduction to Visual Storytelling or Digital Cinema 1

In a time when our population gets the vast majority of its news and information from the internet, students need to be creative and ethical consumers and producers of digital media. This course will allow St. Edward students to tell true stories about the world around them using various forms of digital media including video, audio, social media, and digital text. Students will begin to approach our school community as news reporters and producers--pitching, writing, and filming segments for weekly SETV episodes; producing podcasts; and managing news and information in various written, online platforms. In doing so, students will make use of professional-grade video and audio equipment, as well as our editing suites and podcasting studio.

IB FILM HL

COURSE IB603/604HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- Criteria for selection: department approval for those not pursuing an IB diploma
- Students who take this course but do not pursue an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

A cornerstone of the Film Department, our two-year HL offering serves as the ideal spot for passionate young filmmakers. HL Film alumni have contributed to films that have won international, national and regional accolades and have allowed students to build meaningful relationships with communities across greater Cleveland. Those who enroll will be primed to create powerful films, work together to explore important civic issues, develop empathy by practicing critical listening skills, thoughtfully analyze cinema from around the globe, and forge friendships through team-based videography.

Unlike Visual Art SL, which explores many mediums, Film HL empowers students to dive deep into the nooks and crannies of 21st century digital cinema: you will have the opportunity to help produce our flagship annual short documentary, create professional-grade short films in popular genres of your choice, and hone your sense of how video shapes your perception of the world around you.

IB VISUAL ARTS SL

COURSE IB605SL

- Grade 11-12
- 2 semesters (1 year)
- Criteria for selection: department approval for those not pursuing an IB diploma
- Students who take this course but do not pursue an IB diploma must sit for and submit all IB required assessments; registrations and subject fees are applicable.

SL Visual Arts is a course which encourages the study of an eclectic blend of various visual arts tailored to the interests of the individual student. IB encourages teachers to leverage student passions as they design coursework; to that end, each year, the cohort will collaborate with the instructor to focus on 2-4 of the following mediums: film, animation, digital photography, comics, print-making, and other sequential visual arts. Offered through the film department, this course asks students to create their own art as well as critically analyze the messages associated with visual language. The course is divided into three major assessment areas: 1.) a portfolio of work in at least two art-making forms 2.) a visual comparative study of existing work in an area of interest to the student and 3.) an exhibition of work. While Film HL remains the ideal spot for passionate, young filmmakers who seek to work on our annual short doc as well as short films in many other engaging genres, if you have previously taken and enjoyed a film or visual arts course and are interested in more than one medium, this is the course for you.

DEPARTMENT OF BUSINESS AND ENTREPRENEURSHIP

ECONOMICS

COURSE 141

- Grade 11-12
- 1 semester
- ½ credit
- This course meets the economic/financial literacy graduation requirement.

This introductory survey course provides the student with exposure to numerous economic principles. The course begins with a general overview of economics as the science of cost, benefit, and choice. Microeconomic concepts are subsequently introduced in the context of how individual choices affect supply and demand and the organization and development of individual enterprises and markets. The course also explains macroeconomics through the examination of Gross Domestic Product, unemployment, inflation, recession and depression, banking, and monetary and fiscal policy. A unit on personal finance is also included.

INTRO TO BUSINESS, ENTREPRENEURSHIP & PERSONAL FINANCE

COURSE 155

- Grade 9-12
- 1 semester
- ½ credit
- This course meets the economic/financial literacy graduation credit.

The course couples the fundamental tools of entrepreneurship with the key underlying components of business. Entrepreneurship focuses on innovation and related concepts of a new business, such as a lean canvas, and SWOT analysis. The business topics include: an introduction to Accounting, financial statements, and personal finance. Other class topics include; Economics and the importance of a global perspective, Legal structure of a business, Ethics in business, and Marketing/Pitching an idea.

ADVANCED BUSINESS & ENTREPRENEURSHIP: MARKETING AND CONSCIOUS CAPITALISM

COURSE 156

- Grade 10-12
- 1 semester
- ½ credit
- Prerequisite: Intro to Business, Entrepreneurship & Personal Finance

Conscious Capitalism is defined as an emerging economic system that includes key factors such as voluntary exchange, entrepreneurship, competition, freedom to trade, and the rule of law. Other important elements are trust, compassion, collaboration, and value creation. Building on the lessons of the Intro course, the students will take a more in-depth look at building a business and work in teams to develop ideas with the four pillars of Conscious Capitalism as a guide. These pillars are ethics, purpose, stakeholder culture and leadership. "While making money is essential for the vitality and sustainability of a business, it is not the only or even the most important reason a business exists." Conscious Capitalism reflects a fundamental change in how the world's businesses compete. The students will then spend the balance of the semester on the role of marketing/advertising today. Students will learn about core concepts such as the Four Ps, and the move to digital marketing which now accounts for over 50% of marketing in the US. The semester will finish with an introduction into sports marketing.

ADVANCED CORPORATE AND PERSONAL FINANCE

COURSE 159

- Grade 10-12
- 1 semester
- Prerequisite: Introduction, Entrepreneurship & Personal Finance

Students will focus on three primary areas: Personal Finance, Investments, and Corporate Finance. Personal Finance and Investments will focus on the tools each student should have to be financially literate, as well as learn about the basics of investing. In the Corporate Finance component of study, students will begin to learn the dynamics of the how and why business management empowers us to make decisions including: using debt and equity to benefit growth, mergers & acquisitions, joint venture strategies and competition-local to global.

IB BUSINESS MANAGEMENT SL

COURSE IB310SL

- Grade 11-12
- 2 semesters (1 year)
- ½ IB credit each semester
- This course meets the economic/financial literacy graduation credit.
- Intro to Business, Entrepreneurship & Finance is not required as a prerequisite, but is recommended

IB Business SL encourages a holistic study of business and the related tools and concepts. The most dynamic element of this course is how we engage both local and national alumni-led businesses as the foundation for our capstone research project. We explore and address challenges in real businesses and in turn develop real connections with leadership there. Subsequently, we explore topics such as, Marketing, Accounting, Finance, Operations Management, Economics, and Human Resources. This one-year course will include the study of qualitative and quantitative tools used in the analysis of businesses.

IB BUSINESS MANAGEMENT HL

COURSE IB311HL/312HL

- Grade 11-12
- 4 semesters (2 years)
- ½ IB credit each semester
- This course meets the economic/financial literacy graduation credit.
- Intro to Business, Entrepreneurship & Finance is not required as a prerequisite, but is recommended

Like our SL course, students will take an in-depth holistic view of business topics and partner with alumni-led businesses across America. However, in the HL course, the students will have a full two years to develop their collegiate-quality research and go into greater depth in each of the business topics. The course is built for students who are looking for the most robust study of how and why real business decisions are made. Students will learn how the various departments in a business work together. They will also be introduced to both for profit and nonprofit companies. The students will work extensively in groups, while still maintaining a focus on individual research.

AP MICROECONOMICS & MACROECONOMICS

COURSE 148

- Grade 11-12
- 2 semesters
- ½ AP credit each semester
- Criteria for selection: Required meeting and approval from Instructor of AP course.
- This course meets the economic/financial literacy graduation requirement.
- AP exam fees for 2 separate exams

The purpose of this course in economics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, as well as, an understanding of the economic system as a whole. The course places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. It also focuses on the study of national income and price-level determination, and develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts. Students are required to take AP examinations in May: they may take exams for both topics or have the option to choose one exam.

DEPARTMENT OF PHYSICAL EDUCATION

The following Physical Education credits are required:

GRADE 9	Health
GRADE 9-12	½ credit for Physical Education (earned through classes) or Physical Education Exemption (earned through 2 seasons of Sport or Marching Band participation) or Physical Education Flex Credit.

HEALTH

COURSE 911

- Grade 9
- 1 semester
- ½ credit

This course examines choices to empower personal wellness and to recognize the relationship between the physical, mental, emotional, and social dimensions of health and its effect on the total person. The areas which are studied are goal setting, personal growth, mental wellness, anxiety management skills, CPR and AED, first aid, fitness, nutrition, addictions, and violence prevention. This course may be taken on line for a fee.

PHYSICAL EDUCATION

COURSE 915

- Grade 10-12
- 1 semester
- ¼ credit

Emphasis is on the formation of a healthy lifestyle incorporating fitness and leisure time activities. Individual and dual activities are taught as equipment allows. Team sports are played with class teams engaging in round-robin tournaments. The student will also gain firsthand experience in different types of weight training, including free weights, machines, plyometrics, circuit training, rubber band resistance, and manual resistance. Great emphasis will be placed on learning proper technique and safety for free weights. The training will be primarily ground based with a strong emphasis on stabilizer muscles. Students may take this course more than once

STRENGTH & CONDITIONING

COURSE 921

- Grade 9-12
- 1 semester
- ¼ credit

This class will teach students the system of development of an athlete's movement patterns, strength, power production and injury resistance. Students who complete this course will be prepared for more advanced systems of training, including those integrated into St. Edward's varsity athletic programs.

PHYSICAL EDUCATION EXEMPTION

Two semesters of physical education are required in order to graduate from St. Edward High School – or any high school in Ohio – but a recent change to Ohio law allows for an exemption for any student who, during high school, “has participated in interscholastic athletics, marching band or cheerleading for at least two full seasons” [O.R.C. 3313.603(L)]. Thus, a student who plays any combination of St. Edward’s 16 sports at any level—freshman, JV or varsity—or marching band or cheerleading for a total of two seasons is exempt. In the case of an exemption, the student would be excused from P.E. classes, but his total number of credits for graduation would not change, therefore he would have to replace P.E. with other academic electives or simply continue to take P.E. as an elective. The exemption would be noted on the student’s official transcript.

INDEPENDENT STUDY AND CREDIT FLEXIBILITY

INFORMATION AND GUIDELINES

In accordance with Ohio law, Credit Flexibility applies to any alternative coursework, assessment and/or performance that demonstrates proficiency qualified to be awarded equivalent graduation credit as applied for and approved in advance by the school. Approved credit awarded through this policy will be posted on the student's transcript and counted toward student grade point average (GPA) and as graduation credit in the related subject area or as an elective.

APPLICATION:

Any student may apply for credit to be awarded through Independent Study or Credit Flexibility. The student will submit an application on the Application for Credit Flexibility form. All required information must be provided. The student may be required to provide supporting documentation as determined by the School Counselor and/or Principal or designee of the Principal. Application may be made at any time. Work completed prior to the approval of an application will not be eligible to count toward credit.

REVIEW OF APPLICATION:

The application will be reviewed by the school counselor(s) and Principal or designee of the Principal. Upon approval of a completed application, the student may then proceed with the learning activity and credit will be awarded when all requirements are completed and evaluated. The Principal or designee may consult with the facilitator of the related department or others as needed to provide needed information prior to making a decision regarding the awarding or denial of credit.

AWARDING CREDIT:

A student may be eligible to receive credit upon satisfactory completion of the coursework, activity, assessment and/or performance as required by the Principal or designee. The following standards and guidelines apply to awarding credit:

- The total number of credits that may be awarded is not limited.
- The successful completion of a preapproved course may result in credit being designated as fulfilling either required or elective credit toward graduation requirements.
- All courses, as applicable, must be aligned to the Ohio Academic Content and Technical Standards to receive credit.
- Credit from other districts and educational providers, including online providers, may be accepted in accordance with the Ohio Operating Standards as determined by St. Edward High School. A student will not be granted credit if he participates in courses through outside sources without prior approval.
- The Principal or designee may award credit for custom learning activity(s) in the amount approved in advance based upon the equivalence to a 120 hour (Carnegie unit) course. In preapproved cases, partial credits may be awarded where deemed appropriate.
- The Principal or designee may award credit or partial credit for preapproved assessments, performances or work products that demonstrate mastery of content of any course offered at St. Edward High School. Elective credit for courses not offered at St. Edward High School may also be earned in this manner as preapproved.

- Honors or Advanced Placement (AP) courses may not be taken through credit flexibility. There are NO weighted grades for credits earned through credit flexibility.
- The Teacher of Record reserves the right to withdraw the student from a course (with penalty) for issues involving plagiarism and copyright violation.
- The student must complete all coursework assigned by the Teacher of Record on or before the due date or the student may be withdrawn with penalty from the course.
- The decision of the Teacher of Record regarding a withdrawal from the course may be appealed to the Principal. A letter outlining the reason(s) for the appeal must be received by the Principal within 10 calendar days following notification of withdrawal.

DETERMINING GRADES:

- Grades earned through Independent Study and/or Credit Flexibility will NOT be weighted. The letter grade to be posted on the transcript and included in the student's grade point average will be awarded as determined by the Teacher of Record.
- If a student fails to make adequate progress on coursework, the approval to further pursue the proposed credit may be revoked and a failing grade will be posted to the student's transcript.
- The final grade for the course must be posted before the credit can count toward graduation.
- If a student is unable to complete the course due to illness (with provided medical documentation) or other valid reason as determined by the Principal or designee, an extension may be permitted and/or requirements revised. If the student does not intend to complete the credit and there has been an illness or other valid reason, the application may be withdrawn without penalty by the Principal or designee.
- Should a student transfer to another school, upon request of the student or parent, St. Edward High School shall forward a copy of the approved application to the new school for their consideration.

ACCESS:

This policy does not in any way prohibit access to online education, postsecondary options or services from another district.