

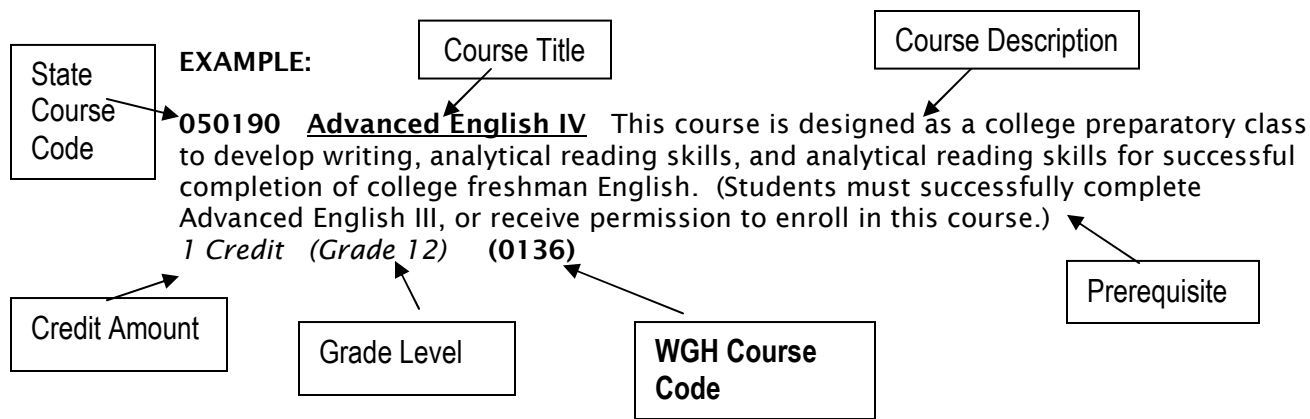
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INTRODUCTION

This is the Warren G. Harding 2009-2010 Course Catalogue. In this booklet you will find a listing of the courses offered at WGH for the upcoming school year. Please take time to review the course options and descriptions with your child as they prepare for the next step in their high school career.

The courses are organized by department to help in your selection process. Each course is labeled with the state course code, the course title, the course description, any prerequisites, amount of credit awarded, the appropriate grade level, and the WGH course code. The WGH course code is used to help you identify the course on the selection sheet. (A sample course selection sheet is at the back of this booklet.)



Students must choose a minimum of six full year courses or the equivalent:
(Two semester courses are equal to a full year course.)

- 1 Credit = Full Year Course
- .5 Credit = Semester Course
- .25 Credit = Physical Education (Semester Course)
- 2 Credits = Full Year Course during 2 class periods

You will know that a course is a full year if it is awarded 1 credit. It is a semester course if it is awarded .5 or .25 credits.

In February a copy of this booklet is given to each student. The counselors review the information with the students in small groups and answer any questions. Your child was instructed to bring this booklet home to discuss options for next school year.

Your child’s counselor will meet individually with your son/daughter to complete scheduling requests. Students will receive an official printout of their course choices to bring home for you to sign and return as quickly as possible.

Every effort will be made to create a schedule that accommodates your child’s choices. There are times when students cannot fit all the classes he/she would like into their schedule, therefore, alternates must be chosen. **Please take the time to choose carefully because there will not be changes made in the schedule once the requests are completed without approval from the principal.**

CLASS STATUS For the official records, credits earned determine grade level placement. Grade level placement will be determined in the following manner:

Freshman 4.75 credits and below

Sophomore 5 - 10 credits

Junior 10.25 - 16.75 credits

Senior 17 or more credits

NOTE:

If a student drops a course after the second week of a semester class or the third week of a year-long class, the student will receive a grade of an F which will appear on the transcript. No course may be dropped without principal permission after the second week.

Diploma

There are testing and curriculum requirements connected with the Ohio diploma; students must meet both requirements in order to earn an Ohio diploma.

| Curriculum Requirements | Minimum | WGH |
|-------------------------|------------|------------|
| English Language Arts | 4 units | 4 units |
| Health | ½ unit | ½ unit |
| Mathematics | 3 units | 3 units |
| Physical education | ½ unit* | ½ unit* |
| Science | 3 units** | 3 units** |
| Social studies | 3 units*** | 3 units*** |
| Electives 7 units**** | ----- | ----- |
| Total: | 20 | 21 |

* ½ unit requires (2) PE classes.

** Science units must include 1 unit of biological sciences and 1 unit of physical sciences.

*** At WGH Social Studies units must include 1 unit of World History, 1 unit of American History and 1 unit of American Government.

**** Electives units must include 1 unit or 2 half units in Business/Technology, Fine Arts, or Foreign language.

Note: Full IB Diploma students must meet additional requirements. See IB brochure available from the guidance office.

WGH Guidance Department

(330) 841-2316

A-D Mrs. Kampf-Melillo Ext. 2498

E-L Mrs. Austin-Brown Ext. 2497

M-R Mrs. Ungaro-Jones Ext. 2496

S-Z Mrs. Senediak Ext. 2495

Secretary: Mrs. Pappas Ext 2488

AP/IB Coordinator

Mr. Bryan O’Hara Ext. 2151

Administration

(330) 841-2316

Mrs. Zitnik, Principal Ext. 2162

Assistant Principals

Mr. Capers Ext. 2590

Mrs. Crawford Ext. 2399

Mr. O'Hara Ext. 2151

Mr. Rasile Ext. 2100

Mr. Thomas Ext. 2011

SAMPLE SCHEDULES

Grade 9

| | |
|-------------------------|--|
| Choose 1 English | 0125 English I |
| Choose 1 Science | 0215 Integrated Science I/Physical Science |
| Choose 1 Social Studies | 0245 World History |
| Choose 1 Mathematics | 0162 Algebra I |
| Choose Electives | 0084 PE I |
| | 0060 French I |
| | 0035 Beginning Broadcasting |

Grade 10

| | |
|-------------------------|---|
| Choose 1 English | 0129 English II |
| Choose 1 Science | 0216 Integrated Science II/Biological Science |
| Choose 1 Social Studies | 0249 US History |
| Choose 1 Mathematics | 0157 Basic Algebra I |
| Choose Electives | 0085 PE II |
| | 0088 Health |
| | 0062 French II |

Grade 11

| | |
|-------------------------|---|
| Choose 1 English | 0133 English III |
| Choose 1 Science | 0215 Integrated Science III/Environmental Science |
| Choose 1 Social Studies | 0253 US Government |
| Choose 1 Mathematics | 0160 Basic Geometry |
| Choose Electives | 0065 French III |
| | 0038 WSCN Foundations |
| | 0039 WSCN Script Writing |

Grade 12

| | |
|--------------------------------------|---------------------------------|
| Choose 1 English | 0137 English IV |
| Choose Core Courses and Electives | 0040 WSCN Video Editing |
| | 0041 WSCN Broadcast Performance |
| | 0067 French IV |
| | 0087 Fitness |
| | 0089 Life Guarding |
| | 0168 Advanced Mathematics |
| | 0229 Chemistry |
| | 0261 African American History |

***Students planning on attending college are encouraged to choose core courses in the senior year as well. Foreign Language is required by most 4-year universities.**

COURSE DESCRIPTIONS

ENGLISH

Students will only be permitted to enroll in one English course per school year. Prerequisite courses must be passed successfully. Any exceptions must have the approval of the building principal and will be considered for seniors only.

050160 English I This course is designed to challenge freshmen in reading and writing with lessons aimed at increasing proficiency in preparation for the OGT. Instruction is based on the ninth grade indicators. The students will be expected to use critical thinking and develop abilities to make inferences in the analysis of the literary genres of poetry, fiction, and drama and communicate that analysis in oral and written forms. The students will engage in creative writing, writing about literature, and writing in the narrative, expository, and persuasive forms. Key grammatical concepts will be covered to augment the writing process and an extensive study of grade-level vocabulary. *1 Credit (Grade 9) (0125)*

050160 Advanced English 9 This course is designed to challenge freshmen in reading and writing with lessons aimed at increasing proficiency in preparation for the OGT. The students will be expected to use critical thinking skills and develop abilities to make inferences in the analysis of the literary genres of poetry, fiction, and drama, and communicate that analysis in oral and written forms. The students will engage in creative writing, writing about literature, and writing in the narrative, expository, and persuasive forms. Students will be expected to work independently on extensive reading of literary selections, type compositions in MLA format, complete literature projects in poetry and fiction, and give presentations in class. Key grammatical concepts will be presented to augment the writing process with a concentration on the extensive study of grade level vocabulary. *1 Credit (Grade 9) (0127)*

050170 English II This course is designed to address the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction is based on grade ten level indicators. Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics, use an appropriate form to communicate their findings and continue to use effective communication techniques. This course focuses on essay writing, OGT preparation, the short story, the novel, and Shakespearean literature. (Students must successfully complete English I to enroll in this course.) *1 Credit (Grade 10) (0129)*

050180 Advanced English 10 This course is designed to challenge sophomores and prepare them for successful completion of the AP or IB English program at grades 11 and 12. This rigorous curriculum requires a comprehensive ability in the areas of critical reading, writing, and oratorical presentation. (Students must successfully complete Advanced English 9 or receive permission to enroll in this course.) *1 Credit (Grade 10) (0131)*

050180 English III This course is designed to address the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction is based on grade level indicators for grade eleven. Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics, use an appropriate form to communicate their findings and continue to use effective communication techniques. This course will present a variety of notable American writers and genre. (Students must successfully complete English II to enroll in this course.)
1 Credit (Grade 11) (0133)

050180 Advanced English III This course will introduce students to a chronological study of American authors and their literature. Advanced composition skills and research techniques will be emphasized. (Students must successfully complete Advanced English II, or receive permission to enroll in this course.)
1 Credit (Grade 11) (0135)

320200 IB English 11 This English course is based on the most current IB Program curriculum. The advanced course is designed to prepare students for successful completion of the IB assessment upon completion of IB English 12. This is the first course in a two-year program of English. It is expected that students who enroll in this course will also enroll the following year in IB English 12. (Students must successfully complete Advanced English 10, or receive permission, to enroll in this course.)
1 Credit (Grade 11) (9001)

059930 AP English Literature & Composition This English course is an advanced study of English literature and composition. This course follows the current Advanced Placement syllabus. Instruction will be centered around the reading and writing benchmarks of the English language arts Academic Content Standards. Students have the opportunity to receive college credit dependent upon their score on the standardized assessment administered through the College Board. (Students must successfully complete Advanced English 10 or receive permission to enroll in this course.)
1 Credit (Grade 11) (9062)

050190 English IV This course is designed to address the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction is based on grade level indicators for grade twelve. Students will read a wide variety of genres of British literature from the Anglo-Saxon period to the twentieth century. The literature will be presented in historical time periods to provide students the understanding of the diverse cultures in British history. (Students must successfully complete English III, or receive permission from the principal, to enroll in this course.)
1 Credit (Grade 12) (0137)

050190 Advanced English IV This course is designed as a college preparatory class to develop writing, analytical reading skills, and analytical reading skills for successful completion of college freshman English. (Students must successfully complete Advanced English III, or receive permission to enroll in this course.)
1 Credit (Grade 12) (0136)

059920 AP English Language & Composition This advanced course follows the current AP English syllabus and consists of organized subject matter and experiences emphasized in English that, upon successful completion, may grant college credit to the student. Instruction will be centered around the reading and writing benchmarks of the English language arts Academic Content Standards. Students have the opportunity to receive college credit dependent upon their score on the standardized assessment administered through the College Board. (Successful completion of English III, AP English Literature & Composition, or teacher permission is required.)
1 Credit (Grade 12) (9072)

320200 IB English 12 This English course is based on the most current IB Program curriculum. This is the second year of an interrelated course that covers parts II and III of the IB curriculum. Various analytical formats are utilized to address the three-part senior sequence of externally assessed requirements. Expectations of students include: completion of world literature papers; oral commentary; completion of a four hour exam in May of the senior year. The focus of the class is the interpretation of literature, both orally and in writing. Students have the opportunity to receive college credit dependent upon the score achieved on the International Baccalaureate External Assessment. (Students must successfully complete IB English 11 to enroll in this class.)
1 Credit (Grade 12) (9003)

300040 School Publications This co-curricular yearlong course is a laboratory school news production course concerned primarily with the production of the *VISIONS* yearbook, the *ARCHETYPE* newspaper, and maintenance of the school's website. Students will focus on all of the journalistic aspects of publication production including publishing, marketing, or photography. Photography students will be taught basic photography using traditional and digital cameras and how to produce, enhance, and manipulate photographs using photo software. The yearbook will be completed utilizing computers and students will learn yearbook production through hands-on experience. Yearbook students **MUST** sell ads and participate in general fundraising activities. Saturday and occasional after-school workshops are a must. This is an elective course that does not meet the requirement as one of the four English credits required for graduation. *1 Credit (Grade 10, 11, or 12) (0146)*

059999 Exploring Literature
This course is designed to teach students to apply reading comprehension strategies, including making predictions, comparing and contrasting, recalling and summarizing and making inferences and drawing conclusions, based on individual needs. (Permission is required.) *.5 Credit (Grade 11 or 12) (1014)*

059999 African American Literature This course is designed to offer students an opportunity to study African American literature and heritage and includes an overview of social issues that affect African Americans in today's society. Focus is placed on the accomplishments of African Americans in the literary world. (Permission is required.)
.5 Credit (Grade 11 or 12) (1074)

050014 Intervention English This course is designed for remedial study with emphasis on the English language arts Academic Content Standards and the Ohio Graduation Test. Students who have not successfully passed the Reading and/or Writing

OGT will be required to take this course. This course does not meet the requirement as one of the four English credits required for graduation.

.5 Credit (Grade 11 or 12) (0141)

SOCIAL STUDIES

150890 World History The study of the world's past to gain understanding and recognize its contribution to the present and future. Historical themes and significant people and events are covered from the Enlightenment (1750) to the present.

1 Credit (Grade 9) (0245)

150890 Advanced World History The study of the world's past from 1750 the present to gain understanding and recognize its contribution to the present and future. This class is a recommended prerequisite for the AP or IB program. Students will be required to complete various projects, write historical essays, and answer short response document-based questions. (Successful completion of eighth grade Social Studies with a B or higher is required for enrollment in this course.)

1 Credit (Grade 9) (0247)

150810 U.S. History The study of the United States from 1877 to the present.

1 Credit (Grade 10) (0249)

150810 Advanced U.S. History A study of the United States from 1877 to the present. This class is a recommended prerequisite for the AP or IB program. Various projects will be assigned throughout the year. (Successful completion of Advanced World History with a grade of B or higher or teacher permission is required.)

1 Credit (Grade 10) (0251)

150300 U.S. Government The study of institutions and processes through which decisions are made for the United States.

1 Credit (Grade 11) (0253)

150300 Advanced U.S. Government The study of the American political system, this course will focus on American political ideology, the development of the political system, and our democratic institutions. Students will be able to evaluate the role of the national government and its relationship to the State and local community. Students will be required to be active participants in their local school or community government.

1 Credit (Grade 11) (0256)

159950 AP Government and Politics US The study of institutions and processes through which decisions are made for the United States. This course follows the Advanced Placement curriculum and the AP test will be offered following completion of the course. Students have the opportunity to receive college credit dependent upon their score on the standardized assessment administered through the College Board. (Successful completion of Advanced U.S. Government with a grade of C or higher or teacher permission is required.)

1 Credit (Grade 11 or 12) (0255)

321050 IB History 11 This is the first year of the IB History program. Students will refine their development and application of historical skills of interpretation and analysis. In addition, this class enables students to understand how and why there are different accounts of the past and the criteria upon which they may be judged. It is encouraged that students who enroll in this course will also enroll the following year in IB History 12. Students will be expected to complete a summer

reading list. Students must successfully complete BOTH IB History 11 and 12 to meet the government requirement. (Successful completion of Advanced US History with a grade of B or better or teacher permission is required.)

1 Credit (Grade 11) (9005)

321050 IB History 12 This is the second year of the IB History program. The course focuses on the historical understanding of 20th Century world history through the acquisition, selection, and synthesis of knowledge with a United States perspective. Students have the opportunity to receive college credit dependent upon the score achieved on the International Baccalaureate external assessment. (Completion of IB History 11 with a grade of B or higher is required.) *1 Credit (Grade 12) (9007)*

150400 Intervention Social Studies Remedial study in preparation for the Ohio Graduation test with little or no new content. Students who have not successfully passed the Social Studies OGT will be required to take this course. This course does not meet the requirement as one of the three Social Studies credits required for graduation. *.5 Credit (Grade 11 or 12) (0257)*

150600 Personal Finance and Economics The study of how society uses its resources to satisfy the desires of its citizens for goods and services. This is an elective credit and does not meet the requirement as one of the three Social Studies credits required for graduation. *.5 Credit (Grade 11 or 12) (0263)*

151311 Sociology This elective course is a study of social relationships, institutions, and group behavior and does not meet the requirement as one of the three Social Studies credits required for graduation. *.5 Credit (Grade 11 or 12) (0259)*

151121 Psychology The study of the human brain and its influence on behavior. This is an elective and does not meet the requirement as one of the three Social Studies credits required for graduation. *.5 Credit (Grade 11 or 12) (0260)*

159999 Legally Speaking This elective course provides a basic understanding of legal terminology, procedures, and trial advocacy. Various areas of the law and legal issues will be examined. It does not meet the requirement as one of the three Social Studies credits required for graduation. *.5 Credit (Grade 11 or 12) (0264)*

159999 Current Events This elective course provides students an opportunity to analyze current events in the community, state, nation, and world from a variety of sources. It does not meet the requirement as one of the three Social Studies credits required for graduation. *.5 Credit (Grade 11 or 12) (0262)*

159999 African American History The study of ancient African culture and heritage in America from slavery through the Civil Rights era. Special attention is paid to African American accomplishments. The course concludes with an overview of social issues that affect African Americans today. This is an elective and does not meet the requirement as one of the three Social Studies credits required for graduation.

1 Credit (Grade 11 or 12) (0261)

159999 The History of Rock and Roll This elective course is designed to offer students an opportunity to study the influence of popular music on all aspects of American life, including culture and politics. Topics include the Jazz Age, Folk and Swing music, the birth of rock and roll, the evolution of pop music, music of the Civil Rights and Vietnam era, post-Vietnam era music, music in the 1990's, and the future of popular music. *1 Credit (Grade 11 or 12) (0265)*

159999 Real Life Law This elective class is taught by a licensed attorney providing knowledge of the basics of law needed for daily living and familiarizing students with their rights and legal procedures. It does not meet the requirement as one of the three Social Studies credits required for graduation. **(Requires permission)**
.5 Credit (Grade 9, 10, 11, or 12) (1033)

159999 Inquiry Skills This course is designed to help students with study, research and organizational skills. Students will utilize critical thinking skills, analytical skills, library, and Internet research skills. Students will gain practical experience and develop skills in writing, reading critically, and presenting information orally. Students demonstrate their skills through a required research paper following a formal research method and format. Students intending to enroll in AP or IB courses are expected to use this class as a foundation. .5 Credit (Grade 9) (9057)

321200 Theory of Knowledge 11 This course is comprised of two semesters; one is completed in the junior year and the other in the senior year. This course serves as an introduction to the International Baccalaureate and its philosophy.
.5 Credit (Grade 11) (9058)

321200 Theory of Knowledge 12 This course is comprised of two semesters; one is completed in the junior year and the other in the senior year. This course serves as an introduction to the International Baccalaureate and its philosophy.
.5 Credit (Grade 11) (9059)

SCIENCE

132212 Integrated Science I: Physical Sciences This course is based on the ninth grade Academic Content Standards that will provide students with a base knowledge for the OGT and serve as a prerequisite for future science courses. Topics covered will include state/classification of matter, atomic structure, chemical bonds and reactions, acids/bases, Newton's Laws of Motion, energy and waves, formation of galaxies, stars and solar systems; in addition to the cause/effect relationships of tectonic movement, earth cycles and weather. Scientific skills, inquiry, model, history, technology and discovery will also be incorporated throughout the course.
1 Credit (Grade 9) (0215)

132230 Biology I This course meets the requirements of the Ohio Graduation Test and develops standards-based knowledge and skills. Course study includes cells, concepts in chemistry and biochemistry, genetics and DNA, diversity of life, ecology, biological evolution, historical perspectives and emerging issues; scientific advances and emerging technologies; nature of science inquiry, ethics in science, science and careers, and modeling investigations. (Successful completion of Integrated Science I with a grade of B or higher is required to transition into Biology I.)
1 Credit (Grade 9 or 10) (0217)

132214 Integrated Science II: Biological Sciences This course meets the requirements of the Ohio Graduation Test and develops standards-based knowledge and skills. Course includes cells, genetics and DNA, diversity of life, ecology, biological evolution, historical perspectives and emerging issues; scientific advances and emerging technologies; nature of science inquiry, ethics in science, science and careers, and modeling investigations. 1 Credit (Grade 10) (0216)

132230 Biology II This course is designed to teach the fundamental characteristics of organisms from the kingdoms Monera, Protista, Fungi, and Animalia so that students will have a better understanding of the world around them and their place in it. Course study includes the analysis and comparison of a diverse set of organisms through research and hands on activities. Students will also develop soft skills in the areas of communication, organization, and critical thinking. (Successful completion of Biology I with a grade of C or higher is required to enroll in this course.)

1 Credit (Grade 11 or 12) (0219)

130301 Chemistry This course is the scientific study of how atoms combine to form materials of what things are made of and why they behave as they do. Students will study the composition, structure, properties of, and changes in matter, including the accompanying energy phenomena.

1 Credit (Grade 10, 11, or 12) (0229)

132216 Integrated Science III: Environmental Sciences This course will help students to develop standards-based knowledge and skills. Course includes interactions between humans and the Earth; ecosystems, environmental factors, biological evolution, populations, diversity; matter and energy, relationships; human interactions with science and technology, understanding technology; research, science and society; application of science processes, and techniques and research.

1 Credit (Grade 11 or 12) (0220)

132220 Conceptual Physics This science course is geared toward the college bound student not wishing to pursue a career in math or science. The student will increase understanding of the physical world and the fundamental laws of nature by studying the concepts of physics. Topics include classical mechanics, energy transformations, thermodynamics, fluid mechanics, waves, light, sound, electricity, magnetism and atomic physics.

1 Credit (Grade 11 or 12) (0233)

132220 Conceptual Chemistry This course that is an introduction to the basic chemical concepts. Topics covered include atomic models, metric conversions, elements, molecules, acid/bases, organic compounds, electron configuration, bonding and basic chemical reactions. Conceptual chemistry is recommended for the college bound student not planning to pursue a career in math or science.

1 Credit (Grade 11 or 12) (0227)

132230 Physiology & Anatomy An excellent preparatory course for students pursuing a career in the allied health field and physical education. The course presents essential information for understanding the structure and the functions of the human body. Students will also take the Adult CPR/AED and First Aid course. This course covers the study of tissues followed by the integumentary, skeletal, muscular, digestive, lymphatic, endocrine, nervous, cardiovascular, respiratory and urinary systems, as well as, the eye and the blood. Students will complete several dissections. (Successful completion of Biology I with a grade of at least a C is required.)

1 Credit (Grade 11 or 12) (0221)

132230 Zoology This course is a general survey of both the invertebrate and the vertebrate kingdoms. Emphasis is on laboratory investigation and dissections. The phylogenetic survey of both invertebrates and vertebrates will result in the understanding of the structure, function, and evolution of these organisms. (Successful completion of Biology I or Chemistry with a grade of "C" or higher is required.)

1 Credit (Grade 11 or 12) (0223)

321350 IB Biology 11 This course is the first of a two-part sequence based upon the most current IB Program curriculum. This two-year accelerated course emphasizes biochemistry, cell structure and function, genetics, ecology, evolution, and biodiversity. An investigative approach is used requiring students to design, conduct and interpret experiments on their own. The course includes a good deal of material normally encountered at the freshman college level. In the second semester of the senior year there is a required test review / prep course during which the students concentrate on curriculum components where they are lacking and prepare for the IB exam. (Successful completion of Biology I or Chemistry with a grade of at least a C is required.)

1 Credit (Grade 11) (9009)

321400 IB Chemistry 11 This is the first course in a two-part sequence based upon the most current IB Program curriculum. The students will thoroughly review Chemistry I topics and expand on advanced chemical topics including equilibrium, rate, mechanisms, thermodynamics, advanced gas laws, acid/base theory, redox reactions, electrochemistry, nuclear chemistry, and organic chemistry. Lab exercises, independent reading, and exam options comprise a significant portion of the course of study. (Successful completion of Chemistry is required.)

1 Credit (9013)

321350 IB Biology 12 The second of a two-part sequence this course is based upon the most current IB Program curriculum. This two-year accelerated course emphasizes biochemistry, cell structure and function, genetics, ecology, evolution, and biodiversity. An investigative approach is used requiring students to design, conduct and interpret experiments on their own. The course includes a good deal of material normally encountered at the freshman college level. In the second semester of the senior year there is a required test review / prep course during which the students concentrate on curriculum components where they are lacking and prepare for the IB exam. (Successful completion of IB Biology 11 with a grade of C or higher is required.)

1 Credit (Grade 12) (9011)

321400 IB Chemistry 12 The second of a two-part sequence this course is based upon the most current IB Program curriculum. Study includes a review of IB Chemistry 11 and then extends to include atomic theory, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation, and reduction, and organic chemistry. Students will be expected to complete lab exercises, research papers, problems, and exam options. (Successful completion of IB Chemistry 11 with a grade of C or higher is required.)

1 Credit (Grade 12) (9015)

130302 Physics This course is based on the study of matter and energy, including the study of phenomena associated with mechanics, heat, wave motion, sound, electricity and magnetism, light, and atomic and nuclear structure. This course is geared toward the college-bound student to increase awareness and understanding of the physical world and fundamental laws of nature. This course is recommended for students pursuing careers in mathematics or science and serves as a preparation for the AP Physics class. (Algebra I, Geometry, Algebra II, are required or teacher permission.)

1 Credit (Grade 11 or 12) (0230)

139905 AP Physics B Course based on the current syllabus for the Advanced Placement Physics B and prepares students for the AP examination provided by the College Board. (Successful completion of Physics or teacher recommendation required.)

1 Credit (Grade 12) (9063)

132230 Botany Introduction to plant biology with an emphasis placed on natural selection and the diversity of the plant kingdom. This diversity will be exemplified by

plant adaptations to various types of environmental conditions. (Successful completion of Biology I is required.) *.5 Credit (Grade 11 or 12) (0235)*

139999 Oceanography The students will study all aspects of the ocean including currents, weather patterns, chemical compositions, ecological environments, and animal diversity. Students will also study the human relationship with the ocean and the mutual effect of one on the other. *.5 Credit (Grade 11 or 12) (0236)*

139999 Ecology The students will study the different relationships between living and nonliving organisms. Students will study the different types of environments, biomes, and aquatic environments. Students will also study the human impact on these environments and organisms. *.5 Credit (Grade 11 or 12) (0238)*

139999 Astronomy A non mathematical study of all matter and energy in the universe, emphasizing the concentration of this matter and energy in evolving bodies such as planets, stars, and galaxies. Topics include the sun, solar systems, stars, black holes, supernova, and quasars. *.5 Credit (Grade 11 or 12) (0239)*

132900 Intervention Science A course for students who have taken, but not yet successfully passed the Ohio Graduation Test. The variety of standards-based instruction and assessment strategies used in this course is appropriate to assist student preparation for the OGT. Students not passing the test will be required to take this course. This is an elective credit and does not meet the requirement as one of the three Science credits required for graduation. *.5 Credit (Grade 11 or 12) (0237)*

MATHEMATICS

110480 Basic Algebra This course includes an algebra focus and is the first year of a two-year Algebra 1 curriculum. The primary focus of this course is on real numbers, equations, square roots and powers, unit conversions, slope and distance, and quadratic equations. Additional focus for OGT preparation includes proportional reasoning and indirect measurement, univariate and bivariate data analysis, and the use of counting techniques to compute the probability of independent and dependent events. This course is designed to support a scope and sequence for students who are preparing for postsecondary education in programs that do not include calculus. The expected subsequent course offering for Basic Algebra is Basic Algebra 1. *1 Credit (Grade 9) (0155)*

110301 Basic Algebra 1 This is the second year of a two-year Algebra 1 curriculum. The primary focus of this course is an in-depth study of algebraic concepts and processes to represent and solve problems that involve variable quantities. Included are using and relating graphical and symbolic representations and techniques. Additional focus for OGT preparation is embedded in the course. *1 Credit (Grade 10) (0157)*

110301 Algebra I This course addresses the grades 9-12 portion of the Academic Content Standards for mathematics using an integrated approach. This course will identify and justify mathematical properties with fluency in computation using real numbers. Focus will be on coordinate planes, linear and quadratic equations, inequalities, monomials, polynomials, data analysis, and probability. (Students should

have passed the Math Achievement Test in eighth grade to enroll in this course.)

1 Credit (Grade 9) (0162)

111200 Pre IB Math 9 (Geometry) This advanced course focuses on skills needed for solving problems using geometry. It is specifically designed to provide the foundation for the IB Math sequence. (Students must have passed the Math Achievement Test in eighth grade and should have a teacher recommendation.)

1 Credit (Grade 9) (0172)

111200 Geometry This course extends understanding of new content in algebra, geometry, data analysis, and probability. There is an extensive focus on student proficiency in algebraic and geometric concepts aimed at preparation for the OGT. Topics include algebraic and trigonometric functions, figure properties and relationships, problem solving, use of technology through interactive software in geometric construction/proofs. This course is recommended for college bound students who are not pursuing a career in the field of mathematics.

1 Credit (Grade 10) (0164)

110302 Pre IB Math 10 (Algebra II) This is an advanced course designed to prepare students for the IB Math sequence. Students will develop a further understanding of the concepts of algebra and processes such as matrices, vectors, polynomial functions, rational functions, logarithmic functions, exponential functions, and radicals. (Students must successfully complete Advanced Math 9 to enroll in this course.)

1 Credit (Grade 10) (0174)

110490 Basic Geometry This course is designed to expose students to basic geometric concepts that include properties and relationships of various figures, trigonometric ratios, Pythagorean Theorem, and the use of algebra to solve geometric problems. Students will be challenged to make connections between concrete examples and abstract concepts. This course is designed to support a scope and sequence for students who are preparing for postsecondary education in programs that do not include calculus. (Students must successfully complete Basic Algebra I to enroll in this course.)

1 Credit (Grade 11) (0160)

110302 Algebra II This course expands the study of algebra, geometry, data analysis, probability, and/or discrete mathematics to include greater depth of understanding and application. This in-depth course focuses on matrices, vectors, complex numbers, surface areas, volumes of solids, statistics, data analysis, and family of functions. (Students must successfully complete Geometry to enroll in this course.)

1 Credit (Grade 11) (0166)

110302 Basic Algebra II This course expands the study of algebra, geometry, data analysis, probability, and/or discrete mathematics to include greater depth of understanding and application. This course focuses on the beginning concepts of matrices, vectors, complex numbers, surface areas, volumes of solids, statistics, data analysis, and family of functions. (Students must successfully complete Basic Geometry to enroll in this course.)

1 Credit (Grade 12) (3166)

110099 Advanced Mathematics (Pre Calculus) This is the fourth course in a four-year sequence that addresses advanced content in algebra, geometry, data analysis, probability, discrete mathematics, and/or conceptual underpinnings of calculus. This course may also include such topics as trigonometric identities, sequences and series, limits, complex numbers, and introduction to conics. (Students must successfully

complete Algebra II or Pre IB Math 10 with a grade of C or higher to enroll in this course.) *1 Credit (Grade 12) (0168)*

320150 IB Mathematical Studies 11 This is the first of a two-part mathematics sequence that is designed for the student who is not pursuing a math-oriented career. The course is based upon the most current IB Program curriculum. Students will be exposed to a variety of complex mathematical problem-solving methods. This will be accomplished mainly through a critical thought approach to the topics with emphasis on pragmatic application. It is expected that students who enroll in this course will also enroll the following year in IB Mathematical Studies 12. This course provides the foundation of study for preparation for the external assessment in the senior year. (Students must successfully complete Pre IB 10 to enroll in this program.)
1 Credit (Grade 11) (9033)

320150 IB Mathematical Studies 12 This is the second course of a two-year sequence which continues a student-centered approach to the study of math topics including calculus, trigonometry, and theory. The course is based upon the most current IB Program curriculum. Students are required to complete a research project and IB external assessment. Students have the opportunity to receive college credit dependent upon the score achieved on the International Baccalaureate external assessment. (Students must successfully complete IB Mathematical Studies 11 to enroll in this course.) *1 Credit (Grade 12) (9035)*

320100 IB Mathematics Standard 11 This is the first course of a two-year sequence designed for students pursuing a career in the field of mathematics. The course is based upon the most current IB Program curriculum. This course is designed as a formal study of advanced algebra topics including the Cartesian plane and functions, exponential and logarithmic functions, vectors, matrices, sequences and series, probability, statistics, and binomial theorem. This course is at the pre-calculus level. Portfolio projects are required. (Students must successfully complete Pre IB Math 10 to enroll in this class.) *1 Credit (Grade 11) (9037)*

320100 IB Mathematics Standard 12 This is the second course of a two-year sequence designed for students pursuing a career in the field of mathematics. This course is based upon the most current IB Program curriculum. This course is designed as a formal study of topics from calculus including the study of limits, differentiation and integration. Portfolio projects are required. Students have the opportunity to receive college credit dependent upon the score achieved on the International Baccalaureate external assessment. (Students must successfully complete IB Mathematics 11 to enroll in this course.) *1 Credit (Grade 12) (9039)*

119930 AP Calculus AB This is a mathematics course devoted to college level mathematics for which most colleges grant advanced placement and/or credit. College credit may be granted upon successfully passing the Calculus AB exam. While some time may be allowed for the review of elementary functions, most of the year will be spent on topics in differential and integral Calculus in preparation for the Calculus AB exam. The main ideas to be presented over the course of the year are as follows: 1. Functions, Graphs, and Limits; 2. Derivatives; 3. Integrals. Students entering this course must have successfully completed Algebra I, Geometry, Algebra II, Advanced Math/Precalculus, or the equivalent. *1 Credit (grade 12) (9065)*

111950 Intervention Mathematics This course is designed specifically for students who have not yet reached proficient standards on the OGT. This course prepares students to retake the test, includes little or no new significant content, and is remedial

in nature. Students who have not yet passed the Mathematics portion of the OGT will be required to take this course. This is an elective credit and does not meet the requirement as one of the three mathematic credits required for graduation.

.5 Credit (Grade 11 or 12) (0170)

119999 Math 12 This course will examine the basic concepts of mathematics used in today's society. Topics include banking, understanding taxes, the use of credit, and review of basic mathematical functions for daily living. This course can be used for a Mathematics credit toward graduation. (Permission is required to enroll in this course.)

1 Credit (Grade 12) (1021)

119999 Consumer Mathematics This course will examine the basic concepts of mathematics used in today's society. The focus is on the principles of banking, taxes, and several retail uses of math in daily life. A project will be required. This course is designed for all students interested in becoming more knowledgeable of personal finances. This is an elective course that does not meet the requirement as one of the three Mathematic credits required for graduation.

.5 Credit (Grade 11 or 12) (0158)

FOREIGN LANGUAGE

060102 Chinese I This is the first course in a four-year sequence study of the language and culture of the Chinese-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts. Students will learn the four tones of Mandarin Chinese, pinyin Romanization, 200-250 characters, simple syntax, and other grammar and cultural aspects peculiar to Mandarin Chinese. The four areas of listening, speaking, reading, and writing will be presented at the basic level. This series of courses are the most difficult in the foreign language area. (Students must have a "C" or higher in English to enroll in this course.)

1 Credit (Grade 9, 10, 11, or 12) (0078)

060102 Chinese II This is the second course in a four-year sequence study of the language and culture of the Chinese-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts. Chinese II is a continuation of Chinese I. More attention is focused on the four areas of foreign language skill. An additional 200-250 characters will be taught as well as a more intense focus on grammatical and sentence order skills. Cultural aspects peculiar to Mandarin Chinese will be explored. (Students must successfully complete Chinese I with a "C" or higher to enroll in this course.)

1 Credit (Grade 10, 11, or 12) (0080)

060102 Chinese III This is the third course in a four-year sequence study of the language and culture of the Chinese-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts. This course builds on the knowledge from prerequisite courses and vocabulary and characters will increase to 500 new words and characters. Skills of foreign language acquisition will be taught on an intermediate level and other cultural skills peculiar to Mandarin Chinese will be reinforced. (Students must successfully complete Chinese II with a "C" or higher to enroll in this course.)

1 Credit (Grade 11 or 12) (0082)

060102 Chinese IV This is the fourth course in a four-year sequence study of the language and culture of the Chinese-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts. This

course builds on the knowledge from prerequisite courses and vocabulary and characters will increase to an additional 500 new words and characters. Skills of foreign language acquisition will be taught at an advanced level and other cultural skills peculiar to Mandarin Chinese will be reinforced. (Students must successfully complete Chinese III with a “C” or higher to enroll in this course.) *1 Credit (Grade 12) (0083)*

060230 French I This course is the first in a sequence of the study of the language and culture of the French-speaking world leading to the ability to communicate in a range of situations and glean meaning from a variety of texts. Students will develop listening, speaking, reading, and writing comprehension skills. Cultural aspects will be integrated into language lessons. (Students must have a C or higher in English to enroll in this course.) *1 Credit (Grade 9, 10, 11, or 12) (0060)*

060230 French II This course is the second in a sequence of the study of the language and culture of the French-speaking world leading to the ability to communicate in a range of situations and gain meaning from a variety of texts. Students will extend knowledge of the French culture. The focus of this course will be on pronunciation, grammatical structures, vocabulary, reading, and composition. (Students must successfully complete French I with a C or higher to enroll in this class.) *1 Credit (Grade 10, 11, or 12) (0062)*

060230 French III This course is the third in a sequence of the study of the language and culture of the French-speaking world leading to the ability to communicate in a range of situations and gain meaning from a variety of texts. This course builds on prior knowledge, expanding grammar, reading, writing skills, with an emphasis on literary analysis. French culture is further explored. (Students must successfully complete French II with a C or higher to enroll in this course.) *1 Credit (Grade 11 or 12) (0065)*

060230 French IV This course is the fourth in a sequence of the study of the language and culture of the French-speaking world leading to the ability to communicate in a range of situations. This course places an emphasis on the study of French literature, history, and culture. Students will conduct research, prepare written compositions, and present oral projects. (Students must successfully complete French III with a C or higher to enroll in this course.) *1 Credit (Grade 12) (0067)*

069914 AP French Language This course follows the current Advanced Placement syllabus in preparation for the Advanced Placement exam. Students have the opportunity to receive college credit based on the score of the exam. (Students must have completed French III with a B or higher to enroll in this course.) *1 credit (Grade 12) (9020)*

060265 Spanish I This course is the first in a sequence of the study of the language and culture of the Spanish-speaking world leading to the ability to communicate in a range of situations and gain meaning from a variety of texts. Students will develop listening, speaking, reading, and writing comprehension skills. Cultural aspects will be integrated into language lessons. (Students must have a C or higher in English to enroll in this class.) *1 Credit (Grade 9, 10, 11, or 12) (0069)*

060265 Spanish II This course is the second in a sequence of the study of the language and culture of the Spanish-speaking world leading to the ability to communicate in a range of situations and gain meaning from a variety of texts. Students will expand their ability to read, write, speak, and listen to Spanish. Students

will be expected to communicate in Spanish employing principles of grammar. (Students must successfully complete Spanish I with a “C” or higher to enroll in this course. Freshmen must have earned a B or higher in 8th grade to receive high school credit in Spanish I and enroll in Spanish II.) *1 Credit (Grade 9, 10, 11, or 12)* (0071)

060265 Spanish III This course is the third in a sequence of the study of the language and culture of the Spanish-speaking world leading to the ability to communicate in a range of situations and read a variety of texts. This course will focus on instruction at the advanced intermediate level. Students will expand their ability to read, write, speak, and listen to Spanish. (Students must successfully complete Spanish II with a C or higher to enroll in this course.) *1 Credit (Grade 10, 11, or 12)* (0073)

060265 Spanish IV This course is the fourth in a sequence of the study of the language and culture of the Spanish-speaking world leading to the ability to communicate in a range of situations. This course will focus on instruction at the advanced level. Students will expand their ability to read, write, speak, and listen to Spanish at an advanced level. (Students must successfully complete Spanish III with a C or higher to enroll in this course.) *1 Credit (Grade 11, or 12)* (0075)

320800 IB Second Language-Spanish 11 This is an advanced course involving rigorous study which is based upon the most current IB Program curriculum. The objectives of the course include: to be able to speak about cultural topics; to be able to read and comprehend authentic IB materials; to be able to write about topics and articles. (Students must successfully complete Spanish III to enroll in this course.) *1 Credit (Grade 11 or 12)* (9021)

320800 IB Second Language-Spanish 12 This is an advanced course involving rigorous study which is based upon the most current IB Program curriculum. The objectives of the course include: to be able to speak about cultural topics; to be able to read and comprehend authentic IB materials; to be able to write about topics and articles. (Students must successfully complete IB Spanish 11 to enroll in this course.) *1 Credit (Grade 12)* (9023)

ENGINEERING

100300 Introduction to Mechanical Drawing This course offers the basic fundamentals of industrial drafting and blueprint reading with emphasis on elementary mastery of the international standard of the drafting language using traditional drawing instruments. Students will gain understanding and experience in basic geometric shapes and measuring systems. The concepts of projection are explored through orthographic and isometric sketching. *1 Credit (Grade 9, 10, 11, 12)* (0120)

100300 Architectural Drawing Students will study the fundamental concepts of residential building structure and design. The classic architectural styles will be examined and standard architectural methods will be employed to develop original designs for foundations, floor plans, and elevations. Students will use both board drawing techniques and the latest Computer Aided Design (CAD) systems. *1 Credit (Grade 10, 11, or 12)* (0113)

299999 Career Exploration Lab The Career Exploration Lab has been developed to give students an understanding about various curriculum pathways available to them. Students first learn about various areas of technology by working with a set of technology modules. There are ten areas of study, which include weather monitoring, digital photography, graphics and animation, computer aided design (CAD), aerodynamics, robotics and automation, basic electricity, construction technology, CNC technology, and materials and processes. *.5 Credit (Grade 9, 10) (0095)*

101350 Robotics This course is designed as an introduction into the world of robotics. Students will be instructed in the application of processes and knowledge in the design, development, and use of systems to manage and control devices. Products of student work in robotics may be descriptive or functional models across all systems areas. *1 Credit (Grade 9, 10, 11, or 12) (0096)*

101350 Advanced Robotics This course is designed as a continuation into the world of robotics. Students will become proficient in the application of processes and knowledge in the design, development, and use of systems to manage and control devices. This class is designed for, but not limited to, students who are participating as part of WGH Robotics Team, and have an interest in continuing study of Engineering courses. *1 Credit (Grade 10, 11, or 12) (0012)*

100300 Introduction to Engineering Graphics This course is designed around the fundamentals of industrial drafting with emphasis on elementary mastery of the international standard of the drafting language using traditional drawing instruments. Students will master several measuring systems including metric, decimal, and the Standard English system. The concepts of projection are explored through orthographic and isometric sketching. Those concepts are further developed with the use of various computer graphics software. (Students should complete either Career Exploration Lab or Robotics successfully before enrolling in this course.)
1 Credit (Grade 9, 10, 11, or 12) (0105)

100300 Advanced Engineering Graphics Students will expand their understanding of Engineering technology with a further study of the applications of Computer-Aided Design. Students will use the latest in computer design software to create two-dimensional orthographic drawings and three-dimensional parametric models. This course will continue with student mastery of three-dimensional graphics through the study of parametric modeling. This technology is widely used in the engineering and entertainment fields to create 3D graphics of existing products and to solve design problems for new products. This will culminate with a team design experience in which students will create an original solution to a design problem. (Students must successfully complete Introduction to Engineering Graphics to enroll in this course.)
1 Credit (Grade 10, 11, or 12) (0108)

290150 Advanced Computer Animation Students who have successfully completed Computer Graphics and Animation will take the skills and concepts learned to the next level. While developing expertise in model creation and scene design, students will use lighting, camera posting, custom materials and texturing, and sound to produce full, rich computer animations. The aspects of video game design will be explored further through the creation and animation of character models and the development of story lines. (Students must successfully complete Computer Graphics and Animation prior to enrolling in this course.)
1 Credit (Grade 10, 11, or 12) (0116)

MANUFACTURING SYSTEMS

101900/101410 Fundamentals of Wood/Metal Shop This course is designed as an introduction to basic tools and tool safety. Students explore wood technology, concentrating on machine set-up and application. Students also explore metal technology by investigating casting, various welding processes, and machine tool operation and repair. Students construct their own projects.
.5 Credit (Grade 9, 10, 11, or 12) (0097)

101900/101410 Shop Technology I, II, III This course can be taken at 3 levels. This course allows students to develop proficiency in the shop technology area. Students work both in the wood and metal shops. Leadership and group skills are emphasized. Students can form teams (this is optional) to produce a product using the knowledge they learned in the introductory course. In the shop, students solve problems and make decisions in a work-related environment. They incorporate observational skills, analytical skills, critical thinking skills, and then apply technical writing and digital documentation skills, to be a team contributor to ensure the quality of their product. Students present their products to the class and are required to keep a portfolio documenting their production experience. (Students must successfully complete Fundamentals of Wood/Metal Shop to enroll in these courses, which are sequential in nature.)
.5 Credit (Grade 10, 11, or 12) (0099, 0101, 0103)

COMPUTER SCIENCE

290100 Computer Applications This computer technology course is designed to allow students to experience an overview of the software applications used in business such as Microsoft Office (Word, Excel, Access, PowerPoint, Publisher, FrontPage, InfoPath, Outlook.) Students will focus on developing skills required in college and the world of work. Students will explore the appropriate use of computer hardware and software. The use of technology tools for information access and sharing, remote information access retrieval and multimedia are defined and demonstrated. Additionally, students will be introduced to the emerging technologies in today's society as well as Internet etiquette and safety and searching techniques for using Internet resources.
.5 Credit (Grade 9, 10, 11, or 12) (0027)

290050 Introduction to the Science and Technology of Computers This course is an introduction to the concepts, both mathematical and technological, upon which the design of all computers is based. Students will examine internal and external computer components and devices and gain an understanding of their interdependencies. During this course, the meaning of the specifications of personal computers will be made clear through theoretical discussions and hands-on demonstration of the inner workings of these computers and their peripherals. The successful completion of this course will enable the student to evaluate computer configurations, determine system power and value, and understand the hardware requirements of various computer applications. This course will provide students with a general knowledge about computer hardware, software, networking, languages, and the impact on the modern world. Students should enroll in this course as the prerequisite to all other computer science courses.
.5 Credit (Grade 9, 10, 11, or 12) (0023)

290100 Introduction to Computer Networking This course will help students learn and develop a solid understanding of how networks function, the fundamental networking principles, and why we use networks to communicate with each other. Students will obtain hands-on experience for creating, maintaining, and troubleshooting networks. Students will also learn the guidelines for using the Internet, acceptable use policies, and copyright issues. This course will help students develop skills needed to begin a career path in networking and information technology. This course should also provide students with a general knowledge about computer hardware, software, networking, languages, and the impact it has on the modern world. (Students must successfully complete 1 semester of Computer Science prior to enrolling in this course.)
1 Credit (Grade 11 or 12) (0025)

290100 Introduction to Programming/Visual Basic This course is an introduction to logic and basic programming structures using Visual Basic (VB) and HTML. Students will learn the process of writing, testing, and maintaining source code. They will be introduced to the concepts of event driven programming in a windows environment to create computer applications, data management systems, menu driven applications, and nested animations. (Students must successfully complete 1 semester of Computer Science prior to enrolling in this course.)
1 Credit (Grade 11 or 12) (0026)

321150 IB Information Technology in a Global Society 11 This two-year course is based on the most current IB curriculum. Through this course students will learn to: understand and critically examine the global impact of IT developments; demonstrate a knowledge and understanding of the social and ethical implications of IT systems and developments at the local, national, and global level; analyze and evaluate the social and ethical implications of IT developments; express ideas clearly and coherently with supporting arguments and examples. Students in the junior year will be required to complete a portfolio which consists of five written pieces of work based broadly on different categories of social issues. *1 Credit (Grade 11) (9045)*

321150 IB Information Technology in a Global Society 12 This two-year course is based on the most current IB curriculum. Through this course students will learn to: understand and critically examine the global impact of IT developments; demonstrate a knowledge and understanding of the social and ethical implications of IT systems and developments at the local, national, and global level; analyze and evaluate the social and ethical implications of IT developments; express ideas clearly and coherently with supporting arguments and examples. Students in the senior year will be required to modify their portfolios and complete a project which will include a finished product, a report, and a log book. (Students must successfully complete IB Information Technology in a Global Society 11 to enroll in this course.) *1 Credit (Grade 12) (9047)*

300030 College Access 11 This course is designed for college bound students who wish assistance with the process; from improving ACT/SAT scores to choosing a college to applying for scholarships. Topics covered include: time management, money management, scholarship opportunities, timelines, and career paths. Students will work on individual and self-improvement goals geared to college entrance, affording college, and surviving college. Juniors will concentrate on testing and the preliminaries of the college application process. *.5 Credit (Grade 11) (0028)*

300030 College Access 12 This course is designed for college bound students who wish assistance with the process; from improving ACT/SAT scores to choosing a college to applying for scholarships. Topics covered include: time management, money management, scholarship opportunities, timelines, and career paths. Students will work on individual and self-improvement goals geared to college entrance, affording college, and surviving college. Seniors will concentrate on college applications and finalizing plans. *.5 Credit (Grade 11) (0029)*

BROADCASTING/VIDEO PRODUCTION

050500 Speech/Communication Written and spoken language will be the focus of this course as students learn to organize thoughts for presentation. Students will think critically about alternative forms of communication made possible by technology including broadcast journalism, film, advertising, popular music, and the Internet. *.5 Credit (Grade 9, 10, 11, or 12) (0037)*

290110 Beginning Broadcasting The principles of information technology and broadcasting are linked as students learn the basics of news writing, interviewing, and reporting. Video camera, multimedia production software, and equipment use will be the focus of this course. This is a prerequisite for all W.S.C.N. courses. *.5 Credit (Grade 9 or 10) (0035)*

290110 W.S.C.N. Foundations This is the first course in a series of advanced broadcast studies. Students will learn the basic tasks necessary to complete the daily news show and will gain knowledge in several computer programs including Adobe Premiere, Adobe Photoshop, and Adobe After Effects. (Students must successfully complete Beginning Broadcasting and gain instructor permission to enroll in this course.) *.5 Credit (Grade 10, 11, or 12) (0038)*

290110 W.S.C.N. Script Writing This is the second course in a series of advanced broadcast studies. Students will sharpen journalistic writing skills and spend extensive time working with studio broadcast equipment, including teleprompter functions. Students will also begin writing scripts for cable television productions. (Students must successfully complete Beginning Broadcasting and gain instructor permission to enroll in this course.) *.5 Credit (Grade 10, 11, or 12) (0039)*

290110 W.S.C.N. Video Editing This is the third course in a series of advanced broadcast studies. Students will spend extensive time learning about the intricacies of Adobe Premiere, Adobe After Effects, Casablanca Independent editor, and more. Students will be expected to assist with daily show production, as well as independent projects and cable production. (Students must successfully complete Beginning Broadcasting and gain instructor permission to enroll in this course.) *.5 Credit (Grade 11 or 12) (0040)*

290110 W.S.C.N Broadcast Performance This is the fourth course in a series of advanced broadcast studies. Students will focus on aspects of on-air performance in both television and radio. Assessment will focus on the quality, volume and pace of speech, as well as eye contact and the ability to read a script and through ad-lib

techniques. (Students must successfully complete Beginning Broadcasting and gain instructor permission to enroll in this course.) *.5 Credit (Grade 11 or 12) (0041)*

290110 W.S.C.N. Film Technique This is the fifth course in a series of advanced broadcast studies. Students will focus on proper filming techniques, including speed of zoom, centering of shots, use of special video effects, transitions used to affect the final piece, etc. Practice will be gained through the filming of the daily news show and cable projects. (Students must successfully complete Beginning Broadcasting and gain instructor permission to enroll in this course.)
.5 Credit (Grade 12) (0042)

290110 W.S.C.N. Full Production This is the sixth course in a series of advanced broadcast studies. Students will be involved in all aspects of show production, cable projects, daily show tasks, and special productions (sporting events, meetings, etc.) (Students must successfully complete Beginning Broadcasting and gain instructor permission to enroll in this course.) *.5 Credit (Grade 12) (0043)*

290110 W.S.C.N. Independent Studies This is the most advanced course that allows students to work independently on individual projects. Students will be offered the opportunity to intern for a short period of time in a local studio or radio station, with the final project representing a written account of all experiences in the process and knowledge gained in pursuit of a broadcasting degree at a level of higher education. (Students must be in the senior year, successfully complete all W.S.C.N. courses, and gain instructor permission to enroll in this course.) *.5 Credit (Grade 12) (0036)*

FAMILY CONSUMER SCIENCE

090101 Personal Development This course will focus on practical problems related to taking responsibility for self and others. Students will have the opportunity to develop skills in decision making, setting personal goals, problem solving, communication, strengthening families, and building self esteem.
.5 Credit (Grade 9, 10, or 11) (0045)

090108 Resource Management This course will focus on practical problems related to managing resources to achieve personal and family goals. Nutrition, meal planning, and wise food choices will be explored. Advertising and consumer skills will be explored. Food preparation will include quick breads, breakfast and lunch items, and salads. *.5 Credit (Grade 9, 10, or 11) (0046)*

090111 Life Planning This course will focus on practical problems related to developing a life management plan for life beyond high school.
.5 Credit (Grade 11 or 12) (0047)

090107 Nutrition and Wellness This course will focus on practical problems related to making nutrition and food choices that promote wellness and good health. Food preparation will include yeast breads, pastas, and appetizers. A focus will be on making

wise food choices, learning about foods from diverse cultures, and dietary guidelines.
.5 Credit (Grade 11 or 12) (0048)

090106 Family Life This course will focus on practical problems related to nurturing human development throughout the life span. Students will have the opportunity to develop skills in making wise choices concerning their future such as marriage options, housing choices, interpersonal relationships, lifestyle, and responsibilities.
.5 Credit (Grade 11 or 12) (0050)

090102 Parenting This course will focus on practical problems related to parenting roles and responsibilities to develop socially responsible behavior in children and adolescents, and understanding the developing child. They will explore the rewards of parenting and ways to build a positive parent-child relationship. Childcare alternatives will be identified and evaluated. .5 Credit (Grade 11 or 12) (0049)

BUSINESS AND MANAGEMENT

032300 Business Career Exploration This course introduces students to general business concepts as well as a basic understanding of the economy and each citizen's responsibility within the business world. Today, employment opportunities demand the best from individuals to be successful. This course is designed to prepare students to enter the world of work as a professional. Students will prepare for the rapidly changing work demands by studying the proper format for resume development, job interviewing techniques, and effective application completion. Students will explore career opportunities, business ethics, business etiquette, and communications.
.5 Credit (Grade 10, 11, or 12) (0017)

032300 Business Consumer Economics This course introduces students to the importance of business consumer economics and consumer resources. Students will become aware of their consumer rights and responsibilities and learn how consumerism will impact the local, state, and national economy. Students will develop the thinking, decision making, consumer, and financial skills transferable to the personal/business world of tomorrow. .5 Credit (Grade 10, 11, or 12) (0018)

031800 Business Financial Planning This course focuses on the student's roles as citizen, student, consumer, family member, and active participant in the business world. Students will discover ways to maximize earning potential, develop strategies for managing and using resources, explore skills for wise use of credit, and formulate strategies for saving and investing money for future use.
.5 Credit (Grade 11 or 12) (0019)

032800 Business Technical Office Skills This course provides practical, current information designed to prepare students for active employment in an office. Students will study information processing, telephone procedures, filing, basic communication and math skills, decision making, and problem solving. The emphasis is on skills required to be successful in business. Emphasis will be placed on developing strong "people skills" as well as on functional (soft) skills.
.5 Credit (Grade 11 or 12) (0020)

252525 Career Based Intervention The Career Based Intervention program is a Career-Technical Education Program designed for students who have barriers to achieving academic and career success. The program is designed to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for postsecondary education and/or careers. The program is a combination of educational and work-based learning experiences. *2 Credits (Grade 11) (0282/0284)*

252525 Career Based Intervention The Career Based Intervention program is a Career-Technical Education Program designed for students who have barriers to achieving academic and career success. The program is designed to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for postsecondary education and/or careers. The program is a combination of educational and work-based learning experiences. *2 Credits (Grade 12) (0288/0290)*

MUSIC

INSTRUMENTAL

120500 Marching Band The high school Marching Band is a performance class comprised of members of Concert Bands I, II, and the Symphonic Band. Although this organization performs primarily during the football season, there are other functions such as parades and band nights throughout the summer and school year. This organization has mandatory practices for 6-8 weeks in the summer. Students and families must schedule vacation, summer school, sport camps, and work around the band schedule. Once school begins, all the students rehearse during period 1. All performances are mandatory and a part of the final grade. All concert band students must perform in marching band unless they are cheerleaders or football players. Transportation is provided to all rehearsals. Students should have good attendance and be in good academic standing. *.5 Credit (Grade 9, 10, 11, or 12) (0190)*

120500 Concert Band I The Concert Band is a performing class, which includes daily rehearsal, individual practice and studying of an instrument, and concerts and contests. This band is open to those who are not yet advanced enough for the Symphonic Band and yet enjoy playing band music. All members must be in marching band unless they are football players or cheerleaders. All performances are mandatory and a part of the final course grade. Students should have good attendance and be in good academic standing. Prerequisite: Concert Band II *1 Credit (Grade 10, 11, or 12) (0184)*

120500 Concert Band II Concert Band I, I or freshman band, is a fundamental performing group that spends time working on the basics of good instrumental musicianship. This class includes daily rehearsal, individual practice and studying of an instrument, and concerts and contests. All members must be in marching band unless they are football players or cheerleaders. All performances and practices are mandatory and a part of the final grade. Students should have good attendance and be in good academic standing. *1 Credit (Grade 9 or 10) (0180)*

120500 Symphonic Band The Symphonic Band is the premier instrumental concert band. This band performs in concerts, clinics, and contests throughout the state and the nation. The instrumentation is set and enrolls the most proficient instrumentalists. This class includes daily rehearsal, individual practice and studying of an instrument,

and concerts and contests. All members must in marching band unless they are football players or cheerleaders. All performances are mandatory and a part of the course grade. Students should have good attendance and be in good academic standing. Prerequisite: Concert Band I or II *1 Credit (Grade 10, 11, or 12) (0182)*

120500 Jazz Ensemble Jazz Ensemble is a select group musicians who study and perform the various forms of big band and jazz literature. Emphasis is placed on playing professional arrangements and improvisation is encouraged. There are many performances a year including some basketball games, band concerts, and jazz festivals. This class includes daily rehearsal and individual study and practice. All performances and rehearsals are mandatory and a part of the final grade. Students must also be enrolled in a concert band to be eligible for this ensemble. Students should have good attendance and be in good academic standing. *1 Credit (Grade 11 or 12 with permission) (0186)*

120500 Beginning Piano This course is designed for those students who wish to learn basic piano playing skills. Students must have good attendance and be in good academic standing. *.5 Credit (Grade 9, 10, 11, or 12) (0209)*

VOCAL

120400 Freshmen Chorale Entrance to this class requires a middle school vocal instructor recommendation. Much time will be devoted to technical development of choral singing and basic music training. All performances are mandatory and a part of the course grade. *1 Credit (Grade 9) (0199)*

120400 New Tomorrows The audition will consist of a vocal solo and panel interview. A grade point average of 2.0 is required for membership and must be maintained throughout the course. The vocal ensemble will consist of select freshmen and sophomore singers. The students must be serious about music and advancing their skills. The literature will be from all styles and periods. Membership will prepare students for Madrigals. All performances are mandatory and are part of the final grade. *1 Credit (Grade 9 or 10) (0201)*

120400 Concert Choir This is a select choir which prepares advanced vocal students for the Acappella Choir. Much time will be devoted to technical development of choral singing and basic music training. This group will also perform at concerts, participate in large group contests and festivals. Private voice instruction will be greatly encouraged and participation in solo and ensemble competition will be expected. All performances are mandatory and a part of the final grade. *1 Credit (Grade 9 or 10) (0203)*

120400 Acappella Choir A formal audition by high school vocal instructor is required for this advanced large ensemble. This group is for the serious and talented singer. The Acappella choir performs advanced choral literature from all periods, styles, and languages. Performances include concerts, contests, festivals, and solo and ensemble contests. All performances are mandatory and a part of the final grade. *1 Credit (Grade 10, 11, or 12) (0205)*

120400 Madrigal Singers Entrance is by audition only. Auditions will consist of a vocal solo and panel interview. A grade point average of 2.0 is required for

membership, and must be maintained throughout the course. The vocal ensemble is designed for the most serious and talented singers. Advanced choral literature representing all styles and periods of music will be performed in the ensemble's concerts. Attending all concerts is mandatory and a major portion of the final grade.
1 Credit (Grade 10, 11, or 12) (0207)

321700 IB Music (Instrumental and Vocal) 11 This course is based upon the most current IB Program curriculum. Students must be in choir or band with the intention of a career in music. This is the first in a two year program which involves performance, music history and literature, research, and music theory. The final grade includes a fifteen minute recorded performance, a research paper, and an externally scored assessment. (This course is by permission only.)
1 Credit (Grade 11) (9053, 9049)

321700 IB Music (Instrumental and Vocal) 12 This course is based upon the most current IB Program curriculum. Students must be in choir or band with the intention of a career in music. This is the second in a two year program which involves performance, music history and literature, research, and music theory. The final grade includes a fifteen minute recorded performance, a research paper, and an externally scored assessment. (This course is by permission only.)
1 Credit (Grade 12) (9055, 9051)

Non-Performance Courses

120800 Music Appreciation Music appreciation is an introduction to music of the different time periods from the Middle Ages through the 21st Century. Students will study the elements of music and use those elements to study how and why composers create different styles and forms of music including: opera, musical theatre, song cycles, choral, instrumental, orchestral, band, large and small ensembles, jazz, and pop. The class involves reading music, listening to music, researching and studying music of different composers. Students should be comfortable expressing ideas through essays and enjoy participating in creative projects. This is a preparatory class for students interested in careers in music. *.5 Credit (Grade 9, 10, 11, or 12) (0211)*

120300 Music Theory Learning to read and write music is similar to learning a foreign language. This is an introductory music class to the mechanics of reading, playing, and writing music. In one semester, students will learn to read music notation and progress to scale reading and singing, playing scales and simple songs on the piano (one hand), ear training, chord building and chord progressions, transposition of music to different instrumental parts in different keys, and the arranging of several short pieces for small instrumental and vocal ensembles. This class prepares students for IB Instrumental and Choral Music and is a preparatory class for those planning for careers in music. *.5 Credit (Grade 9, 10, 11, or 12) (0191)*

FINE ARTS

020012 Art I This course covers the fundamentals of the visual arts. Interest in the arts and an eagerness to try are the only requirements for taking this course. Students are introduced to a wide variety of disciplines and materials. Introduction to art history, criticism, production, and the vocabulary of the visual arts is included in this curriculum sequence. The rudiments of drawing (line, shape, composition, texture, value, and perspective), painting, (color, composition, variety in media) three-dimensional art, and

utilitarian arts and crafts are explored. (This course is the prerequisite for all other Art courses.) *.5 Credit (Grade 9, 10, 11, or 12) (0001)*

020012 Art II This second course builds on knowledge of the fundamentals of the visual arts. Students are introduced to a wide variety of disciplines and materials. Introduction to art history, criticism, production, and the vocabulary of the visual arts is included in this curriculum sequence. The rudiments of drawing (line, shape, composition, texture, value, and perspective), painting, (color, composition, variety in media) three-dimensional art, and utilitarian arts and crafts are explored. (Students must successfully complete Art I to enroll in this course.)
.5 Credit (Grade 9, 10, 11, or 12) (0002)

020242 Ceramics I This course allows students to explore the art of working in clay. Students will hand build pottery using the coil and slab construction methods along with the potters' wheel. Uses of clay through history and across cultures will be explored. This course is for students who have developed an interest in three-dimensional design. Students will learn how to use a kiln and apply glazes. (Students must successfully complete Art I and Art II to enroll in this course.) *.5 Credit (Grade 11 or 12) (0005)*

020242 Ceramics II This course allows students to expand the art of working in clay. Students will hand build pottery using the coil and slab construction methods. Students will also utilize the potters' wheel. Uses of clay through history and across cultures will be explored. This course is for students who have developed an interest in three-dimensional design. Students will learn how to use a kiln and apply glazes. (Students must successfully complete Ceramics I to enroll in this course.)
.5 Credit (Grade 11, or 12) (0006)

020250 Drawing & Painting This course is for the student who has maintained a high level of achievement in the Art I and II courses. Technical skill and knowledge in the field of art are developed to a higher level for those students planning to major in art at the university level. Students will explore a greater diversity of media in the upper level course. (Students must successfully complete Art I and Art II to enroll in this course.) *.5 Credit (Grade 10 with recommendation, 11 or 12) (0007)*

020270 Digital Photography This course serves as an introduction to the various disciplines of modern photography. The course offers an opportunity to learn and manipulate the hard skills of modern technologies linked with conceptual skills required to create sound artistic composition. The students will concentrate on the tools of the trade; the anatomy of the camera and proper settings for use, through the survey of Adobe Photoshop CS3 for editing and artistic manipulation. The course will concentrate on the different genre of photography such as portraiture, landscape, urban, commercial, and abstract. Visual composition will be the ongoing theme of the course using the hard skills acquired to achieve an artistic goal. The outcome of the course will be the organization and assimilation of a ten-piece portfolio. (Students must successfully complete Art I to enroll in this course.)
.5 Credit (Grade 10, 11, or 12) (0015)

020320 Computer Graphics and Animation In this course students will explore aspects of 3D computer graphic design software that is employed by professionals in the field. Students will examine 3D modeling as it applies to such diverse fields as industrial design, the creation of video games, and special effects used by the entertainment industry. Students will learn to create 3D models and use these models to develop a variety of presentations. In the final course project, students will create fully rendered 3D computer animation. Students taking this course should have a working knowledge of personal computers. Previous computer graphics or design experience is helpful, but not required.
1 Credit (Grade 9, 10, 11, or 12) (0014)

020101 Art History This course surveys the development of Western Art and Architecture from its origins through modern times. Students will explore major styles of painting, sculpture, and architecture so that the interrelationship between the political, religious, economic, and cultural aspects of each period may be discovered. Essential terms are explained and important individuals studied in order to provide a working verbal and visual recognition. *.5 Credit (Grade 11, 12) (0012)*

029902 Senior Studio I Senior Studio is presented to give students more freedom in their choice of artistic study. Advanced and independent work will be encouraged. Possibilities in art careers will be discussed and explored. Students enrolled in this class learn how to develop a portfolio for submission to college.
.5 Credit (Grade 12) (0009)

029902 Senior Studio II Senior Studio is presented to give students more freedom in their choice of artistic study. Advanced and independent work will be encouraged. Possibilities in art careers will be discussed and explored. Students enrolled in this class learn how to develop a portfolio for submission to college.
.5 Credit (Grade 12) (0010)

321650 IB Art & Design 11 This course provides exposure to the Elements of Art and the Principles of Design by means of both structured learning and experimental personal research. The student will have an opportunity for both structured learning and wide-range personal research in a variety of techniques such as drawing, painting, collage, printmaking, calligraphy, fashion design, fabric printing and dyeing, fiber arts, ceramic, sculpture and constructions. Art History and Criticism will be integrated into the practical course. Student will be required to keep a journal. Students may start on a topic for investigation. *.5 Credit (Grade 11) (9041)*

321650 IB Art & Design 12 The student will choose one topic for investigation and will spend this year on preparation of assessment of the work. Each student will prepare an exhibition of work and present the research notebook to support the chosen topic. The student will be expected to introduce the topic, show research, present an argument, structure and present the essay, and form conclusions. (Students must successfully complete IB Art & Design 11 to enroll in this course.)
.5 Credit (Grade 12) (9043)

321750 IB Theatre Arts 11 This course is a two-year course (combined with IB Theatre 12). Through this course students will gain: a knowledge of the major developments and techniques in the theatrical history or more than one culture; an

ability to interpret and illuminate playscripts and other theatrical texts analytically and imaginatively; an understanding of the art of the stage and of criticism in relation to it; an ability to perform before an audience, and to demonstrate an understanding of, and skill in, acting techniques; the acquisition of sufficient technical skill to produce satisfactory work in at least one of the theatrical arts or crafts; an understanding of the processes of theatrical production; an ability to research imaginatively, selectively, and with persistence. *1 Credit (Grade 11) (9060)*

321750 IB Theatre Arts 12 This course is a two-year course (combined with IB Theatre 11). Through this course students will gain: a knowledge of the major developments and techniques in the theatrical history or more than one culture; an ability to interpret and illuminate playscripts and other theatrical texts analytically and imaginatively; an understanding of the art of the stage and of criticism in relation to it; an ability to perform before an audience, and to demonstrate an understanding of, and skill in, acting techniques; the acquisition of sufficient technical skill to produce satisfactory work in at least one of the theatrical arts or crafts; an understanding of the processes of theatrical production; an ability to research imaginatively, selectively, and with persistence. *1 Credit (Grade 12) (9061)*

PHYSICAL EDUCATION & HEALTH

080300 Physical Education I Physical Education I is an introductory activity class. The course introduces students to a variety of team and individual activities. This includes teaching and practicing specific sport skills, learning the rules for the game, and measuring fitness levels. The activities taught include but are not limited to: volleyball, badminton, basketball, table tennis, table soccer, shuffleboard, swimming, and weight training. If the weather permits softball and track and field can be included. The swim unit, taught by American Red Cross certified Water Safety Instructors, includes Learn-to-swim programs for every level of swimmer. *.25 Credit (Grade 9) (0084)*

080300 Physical Education II Physical Education II is designed to continue improving the skills learned in Physical Education I and add new individual skills. Activities included in Physical Education II include those learned in Physical Education I plus Archery, Bocce, Frisbee, and Tennis (weather permitting). Sportsmanship in competition is emphasized during many of the round robin tournaments that enable the students to utilize the specific sport skills that are taught. *.25 Credit (Grade 10) (0085)*

080999 Strength and Conditioning This course utilizes activities to improve physical fitness of the individual. An individualized or group program will be performed on a daily basis. These activities will include the four components of fitness. Using sport related and individualized weight training, team sports, physical fitness, and different aerobic movements. This course is designed specifically for the student athlete. This elective course does not qualify as one of the physical education requirements for graduation. *.5 Credit (Grade 9, 10, 11, or 12) (0086)*

080999 Life Guarding This course will follow the Red Cross curriculum for life saving. Life saving and water safety prepares students to pursue water sports, recreation or work as a life guard. Students must be proficient deep water swimmers. This elective course does not qualify as one of the physical education requirements for graduation. *.5 Credit (Grade 11 or 12) (0089)*

260101 Health This course of study deals with the structure and functions of the human body. Students will acquire accurate health information and healthful attitudes and behavior patterns. Students will be encouraged to discover other reliable sources of information that they can consult now and in the future. Students will learn the skills necessary to weigh options to make responsible choices and to develop behaviors that promote healthy lifestyles. This course is a requirement for high school graduation. *.5 Credit (Grade 10, 11, or 12) (0088)*

OTHER COURSES

196980 Life Skills This course is designed to familiarize students with skills needed for successful daily living. Students will become knowledgeable of the resources available to assist them with individual needs. **Requires Permission**
1 Credit (Grade 9, 10, 11, or 12)

199000 EMPLOYABILITY SKILLS 9

199000 EMPLOYABILITY SKILLS 10

199000 EMPLOYABILITY SKILLS 11

199000 EMPLOYABILITY SKILLS 12

These courses are designed for students to gain the necessary skills for future employment. The skills to be emphasized are self-help, general work habits, task-related skills, quality and quantity of work, interpersonal relationships and work attitudes. Courses are adapted to individual needs as the student progresses from freshman to senior year. **Requires Permission**
1 Credit (Grade 9, 10, 11, and 12) (1045, 1047, 1049, 1051)

199000 WORK STUDY 9

199000 WORK STUDY 10

199000 WORK STUDY 11

199000 WORK STUDY 12

These courses are designed to allow students to earn credit for performing jobs in the school, community or agency setting. The students are provided an opportunity to practice and apply employability skills while gaining practical, on the job training. Courses are adapted to individual needs as the student progresses from freshman to senior year. **Requires Permission**
1 Credit (Grade 9, 10, 11, and 12) (1053, 1055, 1057, 1059)

199000 Senior Transition This course is designed for seniors transitioning from high school to postsecondary activities. *1 Credit (Grade 12) (1070)*

