DEXTER HIGH SCHOOL
COURSE DESCRIPTIONS
2020 - 2021

Courses are grouped by academic discipline and aligned as closely as possible with the requirements of the Michigan Merit Curriculum (MMC). Each course listing has the following: course name, grades it is open to, length, any prerequisite/recommendation, and a brief description of the course. Courses approved by the NCAA have been indicated. Courses that a student can receive a weighted GPA have also been indicated.

SUBJECT	PAGE	SUBJECT	PAGE
English Language Arts	1	Film/Video/Photo (VPAA)	29
Mathematics	7	Art & Design (VPAA)	30
Science	15	Graphic Arts (VPAA)	31
Social Studies	20	Music (VPAA)	32
Physical Education & Health	26	World Languages	34
Visual, Performing, and Applied Arts (Abbreviated VPAA)	29-34	Other Electives	39
English (VPAA)	29	SWWC Classes	41

ENGLISH LANGUAGE ARTS

ENGLISH 9 A & B - NCAA APPROVED
Grades: 9
Length: Two Semesters
Prerequisite: Freshman Status
9th Grade English is based on the philosophy that nothing happens in isolation. The history of a nation also includes its literature, art, music, and dance. This course gives students the big picture, an overview of American culture, history, and ideals from the late 1800s to the present.
English 9 is required of all freshmen.

WORLD LITERATURE & COMPOSITION - NCAA APPROVED
Grades: 10
Length: One Semester
Prerequisite: Sophomore Status
World Literature & Composition this single semester course meets the Michigan Merit standards and benchmarks by exploring the literature and culture of Africa and Asia as well as explores the play "Macbeth". WLC focuses on literary analysis and close reading. Students may take this course either semester during 10th grade. The grammar and vocabulary will be taught by semester it is taken to ensure that all 10th graders get the same vocabulary and grammar lessons over the course of the year.
World Lit and Comp AND World Lit and Speech are required of all sophomores

WORLD LITERATURE & SPEECH - NCAA APPROVED
Grades: 10
Length: One Semester
Prerequisite: Sophomore Status
World Literature & Speech this single semester course meets the Michigan Merit standards and benchmarks by exploring the basic framework for delivering speeches, as well as focuses on both fiction and non-fiction literature. WLS focuses on expository writing and research. Students may take this course either semester during 10th grade. The grammar and vocabulary will be taught by semester it is taken to ensure that all 10th graders get the same vocabulary and grammar lessons over the course of the year.
World Lit and Comp AND World Lit and Speech are required of all sophomores.

JUNIORS MUST CHOOSE BETWEEN THESE THREE CLASSES:

UPPER LEVEL LITERATURE AND COMPOSITION 11 A & B- NCAA APPROVED
Grades: 11
Length: Two Semesters
Upper Level Literature and Composition is designed to help students become skilled readers of prose -- primarily non-fiction --written in a variety of periods, disciplines and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their reading and writing in this course, students will become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way conventions of language contribute to effective writing.
Upper Class Lit and Comp, AP Language or IB English HL 1 is required of all juniors.

IB ENGLISH HL 11 A & B – NCAA APPROVED +GPA
Grades: 11
Length: Two Semesters
IB English HL 1 A & B The course is built on the assumption that literature is concerned with our conceptions, interpretations and experiences of the world. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches. The response to the study of literature is through oral and written communication, thus enabling students to develop and refine their command of language. *This course requires a summer reading and writing assignment.*
Upper Class Lit and Comp, AP Language or IB English HL is required of all juniors.
Requires Summer work.

AP ENGLISH LANGUAGE A & B – NCAA APPROVED +GPA
Grades: 11 & 12
Length: Two Semesters
AP English Language is designed to help students become skilled readers of prose written in a variety of periods, disciplines and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their reading and writing in this course, students will become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way conventions of language contribute to effective writing. *This course requires a summer reading and writing assignment.*
Upper Class Lit and Comp 11, AP Language, or IB English 11 is required of all juniors.
Requires Summer work.

SENIORS MAY CHOOSE AMONG THESE COURSES

HONORS HUMANITIES A & B: - NCAA APPROVED+GPA
Grade: 12
Length: Two Terms – Select this course under the English course selections.
Honors Humanities is a two-term, two-hour, blocked, interdisciplinary course. Humanities provides for a comprehensive study of Western civilization and culture, including history, literature, philosophy, art, and music. The course begins with Ancient Mesopotamia and continues through Ancient Greece, Rome, Medieval Europe and the Renaissance. This builds a foundation for the second semester, which follows Europe's history and culture through the Baroque, the Enlightenment and the 19th and 20th centuries. Students read, discuss, and write about classic literature by such authors as Homer, Sophocles, Virgil, Dante, Shakespeare, Voltaire, Swift, Wilde, Kafka, and Frankl, as well as various works of poetry, drama, and a contemporary novel. Class activities include lecture, discussion, analytical writing, film analysis, art, and drama, culminating in a personal philosophical project at the end of the year.

Upper Class Lit and Comp 12 , Theory of Knowledge I and II, Honors Humanities, AP Literature or IB English HL 12 is required of all seniors.

AP ENGLISH LITERATURE A & B – NCAA APPROVED +GPA
Grades: 12
Length: Two Semesters
AP English 12 provides seniors with an in-depth study of literature--poetry, short story, novel, and drama. Expository writing skills are stressed through assignments connected to the literature read. Students write about two essays per week and keep a journal. This course is designed primarily for students interested in obtaining college credits through the Advanced Placement Program sponsored by the College Board; however, the course is open to all interested students who meet the prerequisite. *This course requires a summer reading assignment.*
Upper Class Lit and Comp 12 , Theory of Knowledge I and II, Honors Humanities, AP Literature or IB English HL 12 is required of all seniors.
Requires Summer work.

IB ENGLISH HL 12 A & B- NCAA APPROVED+GPA
Grade: 12th grade only
Length: Two Semesters
Prerequisite: Students must have passed IB English HL 11A and 11B.
IB English HL 12 is the second year of English study, which meets the International Baccalaureate Group 1 Diploma requirements. The first semester will focus on detailed, in-depth study of a major novel, a Shakespeare play, and poetry. The second semester will focus on works of prose fiction--short stories and novels. At the end of the course, students may choose to sit for the IB exams in English. Additionally, students will fulfill the IB requirement of the Individual Oral Commentary. *This course requires a summer reading assignment.*
Upper Class Lit and Comp 12 , Theory of Knowledge I and II, Honors Humanities, AP Literature or IB English HL 12 is required of all seniors.
Requires Summer work.

UPPER LEVEL LITERATURE AND COMPOSITION 12 A & B- NCAA APPROVED
Grades: 12
Length: Two Semesters
Upper Level Literature and Composition is designed to help students become skilled readers of prose -- primarily non-fiction --written in a variety of periods, disciplines and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their reading and writing in this course, students will become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way conventions of language contribute to effective writing. *Upper Class Lit and Comp 12 , Theory of Knowledge I and II, Honors Humanities, AP Literature or IB English HL 12 is required of all seniors.*

THEORY OF KNOWLEDGE I & II
Grade: 12
Length: 1 or 2 semesters
Theory of Knowledge is a class where seniors get to think about and talk about things they experience. They will consider how they know what they know, and explore the fact that others might disagree with them or see things in a completely different way. It is the perfect class for students about to graduate, because it allows introspection, reflection, and conversation on topics that they care about. This class does not have homework, except that we expect students to be aware of what is going on around them. Everything we do in class will be based on student experiences, intellectual discoveries and growth. It is expected that students not only draw from what they are learning, discussing, reading and concluding in their other classes, but that they will also use the tools of critical thinking from this class in their other classes.
Upper Class Lit and Comp 12 , Theory of Knowledge I and II, Honors Humanities, AP Literature or IB English HL 12 is required of all seniors.

THE FOLLOWING CLASSES MAY BE TAKEN BY STUDENTS AS ELECTIVE ENGLISH COURSES

POPULAR LITERATURE
Grades: 9, 10, 11, 12
Length: One Semester
Popular Literature will allow students to read modern and contemporary literature in both fiction and nonfiction genres. They can focus on a particular author or read a variety of authors on a variety of subjects. Students will engage in literature circles, buddy and independent reading as well as close reading, double entry journals and of course, writing about literature. Students in the class will create a final project based on the literature or an author studied during the semester, which students will ultimately present to the class.

CREATIVE WRITING 1 and /or 2 - NCAA APPROVED
Grades: 9, 10, 11, 12
Length: One or Two Semesters
Creative Writing focuses on the craft of writing. Careful analysis of professional and student writing offers students concrete examples of ways to implement literary devices into their work. Students complete a variety of assignments ranging from poetry to memoir to fiction, as well as keep an idea journal. Their own original works are read and critiqued by their classmates as well as by the teacher. Students are encouraged to submit their work for publication. The class will culminate in a final project, which students will ultimately present to the class. Students may take this course for two semesters during senior year

IB FILM STUDIES SL/HL A & B - +GPA
Grades: 11, 12

Length: Year long course for SL, 2 years for HL

IB Film Studies HL/SL 1A & 1B course offers students the ability to learn about film history, theory and technique. Students get to learn about the various aspects of film and then are given hands on opportunities to put that learning into action. There are three main external assessments, which include an oral commentary on a film clip where students describe how that clip fits into the overall movie; a documentary script written in two column format about a topic in film theory, history or genre; and a short film with an entire production portfolio. This course fulfills the Group 6 requirement of the International Baccalaureate Diploma Program.*This course requires a summer assignment.* ***NOTE:*** *Colleges may not award English credit for this course.* ***Requires Summer work.***

IB THEATRE SL/HL A & B +GPA

Grades: 11, 12

Length: Year long course

IB Theater offers a practical subject that encourages discovery through experimentation, the taking of risks and the presentation of ideas to others. It results in the development of both theatre and life skills; the building of confidence, creativity and working collaboratively. It gives students the opportunity to make theatre as creators, designers, directors and performers. The theatre course encourages students to appreciate that through the processes of researching, creating, preparing, presenting and critically reflecting on theatre— as participants and audience members—they gain a richer understanding of themselves, their community and the world. ***NOTE:*** *Colleges may not award English credit for this course.*

SPEECH - NCAA APPROVED

Grades: 9, 10, 11, 12

Length: One Semester

Speech develops the student's basic oral communication skills, emphasizing listening, use of voice and gestures, speech organization and preparation, methods of speech delivery, and overcoming stage fright. The majority of the class time is devoted to student performances and peer evaluations. Students write a persuasive research appear, which they then perform as a persuasive speech. The students read, write, view and perform in this class as well as learn the proper etiquette of being an audience member as well as hone their critical and active listening skills.

INTRODUCTION TO JOURNALISM - NCAA APPROVED

Grades: 9, 10, 11, 12

Length: One Semester

Introduction to Journalism introduces students to the basic elements of journalism, including writing, interviewing, First Amendment rights and responsibilities, layout and design, and marketing. This is a prerequisite course for *Newspaper Writing* and *Yearbook Writing*. Students taking this course should be interested in becoming part of the yearbook or newspaper staff.

NEWSPAPER WRITING
Grades: 9, 10, 11, 12
Length: One or Two semesters each year
Prerequisite: a desire to write for the paper or online version of the *Squall*
Newspaper Writing familiarizes students with journalistic writing and newspaper and website production, including writing articles, selling advertising, designing pages, taking photographs, and First Amendment rights and responsibilities. The class produces the student-run school newspaper and its companion website. Writing skills are emphasized in news writing, writing for the web, feature writing, sports writing, columns and editorials. Previous writing classes and strong English skills are necessary. All enrolled students are expected to put in extra time beyond the school day to assemble the paper, including some time during the summer. Students may re-enroll in this class with instructor approval. This course meets the requirements for the VPAA graduation requirement of the MMC as well as is an English elective course.

YEARBOOK WRITING
Grades: 9, 10, 11, 12
Length: One or Two semesters per year
Prerequisite: a desire to work on the yearbook
Yearbook Writing emphasizes both the skills needed to produce a yearbook and journalistic writing skills. Production skills include: page layouts, In-Design and PhotoShop proficiency, photography, layout and designs, advertising, yearbook sales and First Amendment rights and responsibilities. Writing skills include news, sports and feature writing. Previous writing classes and strong English skills are necessary. All enrolled students are expected to put in time beyond the school day to assemble the yearbook, including time in the summer. Students who have instructor approval may re-enroll in this class. This course meets the requirements for the VPAA graduation requirement of the MMC.

MATHEMATICS

PRE-ALGEBRA A & B
Grade: 9
Length: Two Semesters
Prerequisite: Recommendation of 8th grade teacher
This course is not offered every year. We must show a considerable need for the course and have a minimum number of students to run this course.
Pre-Algebra at the high school is a true introduction to basic algebra concepts. The course provides a strong foundation in variables, expressions, and integers; solving equations and inequalities; factors, fractions, and exponents; ratio, rate, and proportion; linear functions; systems of equations; quadratics; and non-linear functions. **Technology:** A graphing calculator (TI-84/TI-NSpire) is recommended; a scientific calculator (TI-30) is required.

ALGEBRA 9 A & B – NCAA APPROVED
Grades: 9
Length: Two Semesters
Prerequisites: Pre-Algebra
Algebra 9 A & B is organized around families of functions, with special emphasis on linear and quadratic functions. As you study each family of functions, you will learn to represent them in multiple ways – as verbal descriptions, equations, tables, and graphs. You will also learn to model real-world situations using functions in order to solve problems arising from those situations. In addition to its algebra content, Algebra 1 includes lessons on probability and data analysis as well as numerous examples and exercises involving geometry. **Technology:** A graphing calculator (TI-84/TI-NSpire) is recommended; a scientific calculator (TI-30) is required.

ALGEBRA 1 A & B - NCAA APPROVED
Grades: 10
Length: Two Semesters
Prerequisite: Completion of Pre-Algebra
Algebra 1 is the first in a sequence of college preparatory mathematics courses. The key content for this course includes understanding, writing, solving, and graphing linear equations and inequalities. Students will become familiar with operations on monomial and polynomial expressions, including factoring, and will learn to solve quadratic equations by factoring. Students will also learn to solve a variety of application problems using all of these techniques and will extend their reasoning in many important ways, including justifying steps in an algebraic procedure. **Technology:** A graphing calculator (TI-84/TI-NSpire) is recommended; a scientific calculator (TI-30) is required.

ADVANCED GEOMETRY 9 A & B – NCAA APPROVED
Grades: 9
Length: Two Semesters
Prerequisite: completion of an Algebra course
In ***Advanced Geometry 9 A & B*** you will develop reasoning and problem solving skills as you study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. You will also develop problem-solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real world problems. You will be introduced to formal logic and mathematical proof, including both inductive and deductive reasoning.
Technology: A graphing calculator (TI-84/TI-NSpire) is recommended; a scientific calculator is required.

ADVANCED GEOMETRY A & B - NCAA APPROVED

Grades: 10, 11
Length: Two Semesters
Prerequisites: Credit in Algebra course.
Recommended: B- or better in Advanced Algebra, or an A in Algebra.
In ***Advanced Geometry*** you will develop reasoning and problem solving skills as you study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. You will also develop problem-solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real world problems. You will be introduced to formal logic and mathematical proof, including both inductive and deductive reasoning. Recommended for students planning to take Pre-Calculus and above.
Technology: A graphing calculator (TI-84/TI-NSpire) is recommended; a scientific calculator is required.

GEOMETRY A & B - NCAA APPROVED
Grades: 10, 11
Length: Two Semesters
Prerequisites: Credit in Algebra I
Geometry focuses on the key topics that provide a strong foundation in the essentials of geometry, in an informal manner. Students will develop reasoning and problem solving skills through topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. Students will also develop problem-solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems.
Technology: A graphing calculator (TI-84/TI-NSpire) is recommended; a scientific calculator (TI-30) is required.

ADVANCED ALGEBRA 2 A & B - NCAA APPROVED
Grades: 9, 10, 11
Length: Two Semesters
Prerequisites: Credit in Algebra and Geometry.
Recommended: B- or better in Advanced Algebra & Advanced Geometry courses or a B- or better in Advanced Algebra & an A in Geometry.
In ***Advanced Algebra 2*** you will develop reasoning and problem solving skills as you study topics such as solving linear equations and inequalities, solving absolute value equations and inequalities, graphing linear equations, modeling data and making predictions with linear regressions, graphing linear inequalities, solving systems of equations using various methods, quadratic equations, polynomial functions, exponent rules, radical equations, exponential and logarithmic functions, rational functions, conic sections, probability, sequences and series, and an introduction to trigonometry. **Technology:** A graphing calculator (TI-84/TI-NSpire) is required.

ALGEBRA 2 A & B - NCAA APPROVED
Grades: 10, 11, 12

Length: Two Semesters
Prerequisites: Credit in Algebra & Geometry
Recommended: For students not planning to go on to Pre-Calculus or other advanced math courses
In ***Algebra 2 A & B*** you will develop reasoning and problem solving skills as you study topics such as solving linear equations and inequalities, solving absolute value equations and inequalities, graphing linear equations, modeling data and making predictions with linear regressions, graphing linear inequalities, solving systems of equations using various methods, quadratic equations, polynomial functions, exponent rules, radical equations, exponential and logarithmic functions, rational functions, conic sections, probability, sequences and series, and trigonometry. This course will not go into the depth you would see in Advanced Algebra 2.
Technology: A graphing calculator (TI-84/TI-NSpire) is required.

STATISTICS - NCAA APPROVED
Grades: 11, 12
Length: One Semester
Prerequisites: Completion of Algebra 2
Statistics is the studies of how to collect, organize, analyze, and interpret numerical information from data. Statistics is a math class in which students will study a wide variety of different and interesting descriptive and inferential statistical applications. This course will focus on the use of data and statistics to enhance studies of mathematical topics including design of experiments, measure of central tendency, variation and position, probability and exploratory data analysis. This course is valuable not only to mathematics majors, but also in non-mathematical fields such as psychology, biological science, education, business, medicine, social sciences, etc. **Technology:** A graphing calculator (TI-84/TI-NSpire) is recommended.

TRIGONOMETRY - NCAA APPROVED
Grades: 11, 12
Length: One Semester
Prerequisite: Completion of Algebra 2
Recommendation: Minimum of C average in Advanced Geometry or B average in Geometry
Note: This course is only offered in the ***winter*** semester
Trigonometry is designed for juniors and seniors who want to continue with math, but are not taking Pre-Calculus. Trigonometry students will review key algebra concepts and study trigonometric functions and their graphs, applications involving angles in radians and degrees, trigonometric identities, and trigonometric laws. This course will prepare students for further studies in math and science. Since second semester Pre-Calculus covers the topics introduced in this course, students that have completed Pre-Calculus will ***not*** earn credit for trigonometry.
Technology: A graphing calculator (TI-84/TI-NSpire) is required.

PRE-CALCULUS A & B - NCAA APPROVED
Grades: 10, 11, 12
Length: Two Semesters

Prerequisite: Completion of Advanced Algebra 2
Recommendation: Minimum of C average in Advanced Algebra 2
Pre-calculus introduces and/or develops skills related to evaluating functions, graphing and transforming functions, inverse functions, quadratic and higher degree polynomials, complex numbers, rational functions, exponential and logarithmic functions, multiple methods for solving systems of equations, linear programming, applications of matrices, sequences and series, probability, vectors, limits, tangent lines, and area under a curve. Students will also study trigonometric functions and their graphs, applications involving angles in radians and degrees, trigonometric identities, complex numbers, and conic sections. This course will prepare students for further studies in math and science. Additionally, this is the prerequisite for IB Math SL2 and AP Calculus.
Technology: A graphing calculator (TI-84/TI-NSpire) is required.

AP Computer Science Principles A & B - NCAA APPROVED+GPA
Grades: 9 - 12
Length: Two Semesters
Prerequisite: Successful completion of Algebra 9 / Algebra 1
AP Computer Science Principles is designed to be equivalent to a first- semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.

AP CALCULUS A & B - NCAA APPROVED +GPA
Grades: 11, 12
Length: Two Semesters
Prerequisites: Completion of Pre-Calculus
Recommendation: Minimum of B- average in Pre-Calculus and teacher recommendation.
This is a college level course covering limits, continuity, derivatives, integrals, approximation, applications and modeling. This course prepares students to take the
AP Calculus AB test. After completing this course students should be able to…

- work with functions represented in a variety of ways: graphical, numerical, analytical, and verbal.
- understand the connections among these four representations and are expected to be proficient in all of these.
- understand the meaning of the derivative in terms of a rate of change and local linear approximation and should be able to use derivatives to solve a variety of problems.

- understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use integrals to solve a variety of problems.
- understand the relationship between the derivative and the definite integral as expressed in both parts of the fundamental theorem of calculus.
- communicate with fellow students in group situations as well as presenting problems to the class when discussing homework.

Technology: A graphing calculator (TI-84/TI-NSpire) is required.

****Formerly IB Mathematical Studies****
MATHEMATICAL STUDIES A & B - NCAA APPROVED
Grades: 11, 12
Length: Two Semesters
Prerequisite: Completion of Algebra 2 or Advanced Algebra 2 and a strong work ethic
Mathematical Studies A & B caters to students with varied backgrounds and abilities. More specifically, it is designed to build confidence and encourage an appreciation of mathematics in students who do not anticipate a need for mathematics in their future studies. Students embarking on this course need to be equipped with fundamental skills and a rudimentary knowledge of basic processes. The students most suited to for this course are those whose main interests lie outside the field of mathematics. For many Mathematical Studies students, this will be their last formal mathematics course. Students are able to use their own inherent, logical thinking skills and do not have to rely on standard algorithms and remembered formulas. Math Studies students are required to complete a twenty-five hour individual project involving the collection and/or generation of data and the analysis and evaluation of that data.

Technology: A graphing calculator (TI-84/TI-NSpire) is required.

A Note on IB exams: IB candidates are expected to have access to a graphic display calculator throughout the course. Calculators with any form of the following features are not allowed in IB Diploma exams:

· Symbolic manipulation (algebra or calculus)
· External communication (such as infrared links to other machines)
· Data bank, Dictionary, or QWERTY keyboard
· External storage media (card, tape, plug-in module, etc.)

The TI-89, TI-92, and TI-NSpire CAS are examples of calculators that do not comply with IBO regulations. This course satisfies the requirement for a group (5) course for the IB Diploma.

IB Mathematics: Applications and Interpretation A & B - NCAA APPROVED+GPA
Grades: 11, 12
Length: Two Semesters
Prerequisite: Completion of Algebra 2 or Advanced Algebra 2 and a strong work ethic

IB Mathematics: Applications and Interpretation recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course also includes topics that are traditionally part of pre-university mathematics courses such as calculus and statistics.

The course makes extensive use of technology to allow students to explore and construct mathematical models. Mathematics: applications and interpretation will develop mathematical thinking, often in the context of a practical problem and using technology to justify conjectures.

Technology: A graphing calculator (TI-84/TI-NSpire) is required.

****Formerly IB Mathematics SL 2A & 2B****
IB MATHEMATICS: Analysis and Approaches SL A & B - NCAA APPROVED+GPA
Grade: 12
Length: Two Semesters
Prerequisite: Completion of Pre-Calculus
IB Mathematics SL 2A & 2B caters to students who already possess knowledge of basic mathematical concepts, and who are equipped with the skills needed to apply simple mathematical techniques correctly. The students will be exposed to and demonstrate understanding of the material graphically, numerically, analytically and verbally. The majority of these students will expect to need a sound mathematical background as they prepare for future studies such as business administration, psychology, economics, and chemistry. The course focuses on introducing important mathematical concepts through the development of mathematical techniques. Students should whenever possible apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context. The course will encourage students to be open-minded and risk-takers in regards to mathematics, where topics will be taught both traditionally and in a less formal inquiry-based approach. Major topics studied are series, logarithms, various functions, trigonometry, vectors, statistics, probability, statistical distributions, and calculus. The assessments will include both formal and informal assessments such as; class work, homework, projects, quizzes, tests. All students will be expected to complete an internal assessment that will focus on a mathematical investigation and mathematical modeling.
Technology: A graphing calculator (TI-84/TI-NSpire) is required for this course.

A Note on IB exams: IB candidates are expected to have access to a graphic display calculator throughout the course. Calculators with any form of the following features are not allowed in IB Diploma exams:

- Symbolic manipulation (algebra or calculus)
- External communication (such as infrared links to other machines)
- Data bank, Dictionary, or QWERTY keyboard
- External storage media (card, tape, plug-in module, etc.)

The TI-89, TI-92, and TI-NSpire CAS are examples of calculators that do not comply with IBO regulations. This course satisfies the requirement for a group (5) course for the IB Diploma.

****Formerly IB Mathematics HL 2A & 2B****
IB MATHEMATICS: Analysis and Approaches HL A & B / AP Calculus BC A & B - NCAA APPROVED +GPA
Grade: 12
Terms: Two Semesters
Prerequisite: AP Calculus AB and Pre-Calculus
This course, in conjunction with AP Calculus AB, prepares students for both the IB Math Higher Level exam and the AP Calculus BC exam. IB core topics covered include, but are not limited to the following: sequences, series, the Binomial Theorem, advanced trigonometry, vectors, complex numbers and DeMoivre's Theorem, probability, and statistical distributions.

Students are expected to have completed AP Calculus AB prior to this course. The AP Calculus BC exam covers that material, in addition to the following topics covered in this course: indefinite integrals, convergence of infinite series, and solving first-order differential equations.

A Note on IB exams: IB candidates are expected to have access to a graphic display calculator throughout the course. Calculators with any form of the following features are not allowed in IB Diploma exams:

- Symbolic manipulation (algebra or calculus)
- External communication (such as infrared links to other machines)
- Data bank, Dictionary, or QWERTY keyboard
- External storage media (card, tape, plug-in module, etc.)

The TI-89, TI-92, and TI-NSpire CAS are examples of calculators that do not comply with IBO regulations. This course satisfies the requirement for a group (5) course for the IB Diploma.

AP STATISTICS A & B - NCAA APPROVED +GPA
Grades: 11, 12
Length: Two Semesters
Recommendation: Completion of Precalculus

The AP Statistics course is equivalent to an introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

Math electives that do not take the place of required math courses (Algebra, Geometry, and Algebra 2).

FINANCIAL MANAGEMENT
Grades: 11, 12
Length: One Semester
Financial Management uses realistic simulations to help student experience a "taste" of life. Students evaluate the costs of living on their own to help develop skills for quality consumer decisions, managing finances, purchasing basic necessities, investments and examining their role in the marketplace. ***Note:*** Colleges may not award math credit for this course.

IB BUSINESS and MANAGEMENT SL - +GPA
Grades: 11 or 12
Length: Two Semesters
Business and Management is a dynamic discipline that examines business decision-making processes and how these decisions impact on and are affected by internal and external environments. The course is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills. The application of tools and techniques of analysis facilitates an appreciation of complex business activities. The course considers the diverse range of business organizations and activities and the cultural and economic context in which business operates. Emphasis is placed on strategic decision-making and the day-to-day business functions of marketing, production, human resource management and finance. Links between the topics are central to the course, and this integration promotes a holistic overview of business activity. It aims to help students understand the implications of business activity in a global market. This course can be taken as a group 3 IB course or as a senior level Math DHS course. ***Note:*** Colleges may not award math credit for this course, and only counts as a math course in the student's senior year.
This class will be offered every other year--in even years.

BUSINESS MATH
Grades: 11, 12
Length: One Semester
Many students who take this course will likely take math placement tests when they reach college. The ***Business Math*** course reviews with students how to multiply and divide whole numbers and fractions without using calculators - concepts that are on every math placement

and many job placement tests. Students will also work with fractions, decimals, and percents in many real-life applications. Students will find averages and estimate sums and products; solve multi-step problems following a problem-solving plan; cover metric and customary measures and the conversions between them; work with many graphic representations of data; understand and interpret the information in these graphs; organize data in a table, plot, chart, or spreadsheet; find patterns in the data; and critique data displays in the media. ***Note:*** Colleges may not award math credit for this course.

ACCOUNTING A & B
Grades: 11, 12
Length: Two Semesters
Accounting teaches basic accounting principles necessary on work settings, for personal use or for further study. The student learns the fundamentals of sole proprietorship, partnership, and corporate accounting systems. Successful completing of the course will enable the student to various accounting situations, both personal and business. Students complete a practice set, which simulates an accounting job. ***Note:*** Colleges may not award math credit for this course.

SCIENCE

BIOLOGY A & B NCAA APPROVED
Grades: 9,10,11,12
Length: Two Semesters
Prerequisite: None
Biology investigates microscopy, prokaryotes & eukaryotes, biochemistry, cell theory, DNA structure & function, protein synthesis, genetics, evolution, cell respiration, photosynthesis, biospheres, cycles in nature, ecology. Delivery of the biology content is delivered with scientific inquiry, analysis and reflection as the foundation for all content areas. Specific concentration will be placed on the scientific process and communication as the keystone tenant of scientific thought and development. Biology is required for all students graduating from Dexter High School and is a State Requirement according to Michigan Merit Curriculum for graduation.

AP BIOLOGY A & B NCAA APPROVED+GPA
Grade: 11, 12
Length: Two Semesters
Prerequisite: Biology, Chemistry, Recommended Algebra 2 (B or better)
AP Biology provides the equivalent of introductory college biology course taken by biology majors. The course includes rigorous information dissemination through

presentations, discussions, laboratory experiences, research, intensive study, essay writing, and testing. Knowledge of chemistry, mathematical computation skills, and strong writing skills are a must. This two semester course is designed primarily for students interested in obtaining college credits through the Advanced Placement Program sponsored by the College Board.

IB BIOLOGY HL 1A & 1B NCAA APPROVED+GPA
Grades: 11, 12
Length: Two Semesters
Prerequisites: Biology, Chemistry, Recommended Algebra 2 (B or better)
IB Biology HL 1A & 1B offers you the analytical tools to learn about the biological sciences. Topics in the class are developed as problem solving issues where students will explore the role of a biologist through experimentation and problem solving skills. Every activity is meant to develop students as critical thinkers engaging in real world issues such as cloning, bio-terrorism, environmental protections, global perspectives, and most importantly the biologists' role in these issues. This curriculum will promote the skills necessary to make educated decisions about our society and world in response to ecological issues, and help students to determine their role as a citizen in our biological world. This course satisfies the requirement for a group (4) course for the IB Diploma.

IB BIOLOGY HL 2A & 2B NCAA APPROVED+GPA
Grade: 12
Length: Two Semesters
Prerequisites: Biology, Chemistry, Recommended Algebra 2 (B or better)
IB Biology HL 2A & 2B offers you the analytical tools to learn about the biological sciences. Topics in the class are developed as problem solving issues where students will explore the role of a biologist through experimentation and problem solving skills. Every activity is meant to develop students as critical thinkers engaging in real world issues such as cloning, bio-terrorism, environmental protections, global perspectives, and most importantly the biologists' role in these issues. This curriculum will promote the skills necessary to make educated decisions about our society and world in response to ecological issues, and help you to determine your role as a citizen in our biological world. This course satisfies the requirement for a group (4) course for the IB Diploma.

IB SPORTS, EXERCISE and HEALTH SCIENCE SL A & B NCAA APPROVED (for Science) +GPA
Grades: 11, 12

Length: Two Semesters
Prerequisites: Biology, Chemistry or Physics, Recommended Algebra 2 (B or better)
I***BSports, Exercise and Health Science SL*** gives students the opportunity to be a sport and exercise scientist, who would be able to design exercise, training and health care for an athlete, after careful consideration of the physiological, biomechanical and psychological demands of the activity. The course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. Students will cover a range of core and option topics and carry out practical (experimental) investigations in both laboratory and field settings. This course counts as a science credit.
This class will be offered every other year, starting in odd years.

IB Environmental Systems & Societies- NCAA APPROVED+GPA
Grades: 11,12
Length: One Year
Prerequisite: Completion of Biology & Chemistry or Physics
The IB Environmental Science & Society (ESS) is an interdisciplinary course combining natural sciences with a societal perspective. The disciplines are intertwined to help the student better understand the environment and its sustainability. Through experimentation, class discussions, and class activities students will develop a working understanding of the following major topics: systems & models, ecosystems, human populations, carrying capacity & resource use, conservation & biodiversity, pollution management, global warming, and environmental value systems. The course explores the intricate interrelationship between the environment and society, so that students can make an informed personal response to a wide range of global issues.

ADVANCED BIOLOGY: ZOOLOGY NCAA APPROVED
Grades 10,11,12
Length: One semester
Prerequisite: Biology
Advanced Biologygives the student an opportunity for in-depth research and study of some specific biological concepts, uses the inquiry method in learning biological science and provides opportunity for use of scientific equipment. This lab oriented course will focus on taxonomy, comparative anatomy and structural adaptations and evolution of animals using virtual and real dissections, field studies and simulations to investigate the animal world. Essay writing, lab reports, research, mathematical models and discussions will be the tools for learning the information.

FRESHWATER BIOLOGY
Grades: 10, 11, 12

Length: One semester
Prerequisite: Completion of Algebra I, Biology or may be taken concurrently with Biology
Freshwater Biology develops awareness of the value of freshwater resources: ponds, lakes, streams, rivers, and wetlands. Students investigate the chemical nature of water environments, their living organisms, the impact of human uses of water environments and their adjacent watershed land masses, the effects of weather systems and seasons, and career opportunities in fields related to freshwater biology. Class activities include: lecture, labs, projects, field trips, and collaborative group studies and discussion.

CHEMISTRY A & B NCAA APPROVED
Grades: 10, 11, 12
Length: Two Semesters
Prerequisite: Biology
Chemistry teaches how matter interacts and the characteristics of those interactions. Through laboratory experiments, class discussions, and problem solving activities, students develop the ability to observe and measure changes in matter and draw logical conclusions leading to generalizations about the behavior of matter. This class provides the recommended High School Content Expectations in chemistry.

AP/IB CHEMISTRY A & B NCAA APPROVED+GPA
Grade: 11 or 12
Length: Two Semesters
Prerequisite: Biology, Chemistry, Recommended Algebra 2 (B or better)
AP Chemistry provides students with a foundation to support future advanced coursework in chemistry. Through inquiry based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Summer work is a requirement for this course.

PHYSICS A & B NCAA APPROVED
Grades: 10,11,12
Length: Two Semesters
Prerequisite: Biology
Physics A/B is a fundamental science about the nature of basic things such as motion, forces, matter, heat, magnetism, electricity, waves and light. This conceptual physics class, Physics A/B, enables students to build their understanding through exploration, develop their comprehension through demonstrations and thought-provoking

questioning, and then apply what they have learned through inquiry based activities. This course is designed to meet all the requirements for high school Physics. It is a good alternative for students who do not plan to pursue a study in pre-college science courses.
This course does not qualify as a senior math class.

AP PHYSICS 1 A & B NCAA APPROVED+GPA
Grades: 11, 12 (10th graders with teacher permission)
Length: Two Semesters
Prerequisite: Biology, Physics, Recommended Algebra 2 (B or better)
AP Physics 1 is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. The ability to develop and use physics knowledge by applying it to the practice of scientific inquiry and reasoning is at the heart of the new physics courses and exams. Students will spend approximately 25% of their course time engaged in the practice of science through experimenting, analyzing, making conjectures and arguments, and solving problems in a collaborative setting, where they direct and monitor their progress toward an academic goal.

AP PHYSICS 2 A & B NCAA APPROVED+GPA
Grades: 11,12
Length: Two Semesters
Prerequisite: Completion of AP Physics 1A & B or equivalent
AP Physics 2 is a rigorous, conceptual, mathematically-based experimental science course which involves study of the world around us. It is a follow-up course to AP Physics 1. Together AP Physics 1 and AP Physics 2 represent the content that a typical first year college physics course would cover. Some of the major topics are: electrostatics, DC circuits, magnetism and electromagnetic induction, thermodynamics, fluids, optics, and nuclear physics. The course (designed by the College Board) is organized around 7 “Big Ideas,” 7 “Science Practices,” and “foundational physics principles.”
Seven Big Ideas:
1. Objects and systems have properties such as mass and charge. Systems may have internal structure.
2. Fields existing in space can be used to explain interactions.
3. The interactions of an object with other objects can be described by forces.
4. Interactions between systems can result in changes in those systems.

5. Changes that occur as a result of interactions are constrained by conservation laws.
6. Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena.
7. The mathematics of probability can be used to describe the behavior of complex systems and to interpret the behavior of quantum mechanical systems.

INTRODUCTION TO ANATOMY AND PHYSIOLOGY (IAP) **NCAA APPROVED**
Grades: 10, 11, 12
Length: One semester
Prerequisite: Biology
Introduction to Anatomy and Physiology (IAP) This course introduces the student to the anatomy and physiology of the human body. Each body system is highlighted in relation to structure, function, disease, and disorder. Organ and body systems are investigated through lab work, group work, and class discussions. Students learn and use medical terminology. They are encouraged to apply concepts to their own lives.

ASTRONOMY
Grade:9,10,11,12
Length: One Semester
Prerequisite: Algebra I
Astronomy introduces students to the concepts of astronomy as a physical science. The class consists of lecture, classroom activities, and backyard observations of astronomical phenomena. The course content includes history of astronomy and space exploration, light and telescopes, gravity and planetary motion, discussion of size, distance, and time relativity, the solar system, planets, moons, stars, black holes, galaxies, and the universe, possibility of life on other planets, the big bang theory, and extraterrestrial threats to life on Earth.

SCIENCE LABORATORY TECHNICIAN
Grade: 12
Length: One semester class
Prerequisite: teacher recommendation and completed permission form (in Counseling Office) ***Science Laboratory Technician*** provides 12th grade students the opportunity to acquire practical lab skills for future careers in science and technology. Working under a “contract” with a science teacher, a technician learns correct practice for lab preparation, materials/equipment inventory, chemical preparation and disposal,

calibration techniques for lab equipment, and storage and upkeep of lab tools. Technicians also learn and use safe lab practices and responses to lab accidents.

SOCIAL STUDIES

AMERICAN GOVERNMENT - NCAA APPROVED
Grades: 9, 10, 11, 12
Length: One Semester
American Government focuses on explaining and analyzing the American system of government. Topics include the presidency, Congress, the Supreme Court and federal court system, civil rights and civil liberties, political parties, voting and voter behavior. Emphasis is placed on a deeper understanding of how our government functions today. Students are encouraged to think critically about our government and develop their own thoughts and opinions.

AMERICAN HISTORY 9 A & B - NCAA APPROVED
Grades: 9
Length: Two Semesters
American History 9 covers important concepts, people, and events that have affected the course of the United States from the 1870s to the present. *American History 9* is based on the philosophy that nothing happens in isolation. The history of a nation also includes its literature, art, music, and dance. Teachers incorporate group activities, simulations, and writing assignments to illustrate the relationships between the literature and periods of history. This class is required of all freshmen.

AP UNITED STATES GOVERNMENT AND POLITICS - NCAA APPROVED+GPA
Grades: 11, 12
Length: Two Semesters
Prerequisite: A 3.0 cumulative grade point average
AP Government and Politics is a rigorous college-level class with a curriculum established by the College Board to prepare students for the advanced placement examination and potential college credit in United States Government and Politics. In this course students will “acquire knowledge of government and politics including (1) facts, concepts, theories, (2) political processes and their consequences, (3) analyses and interpretations of data relevant to US government and politics.”

AP U.S. HISTORY - NCAA APPROVED+GPA

Grades: 10, 11, 12
Length: Two Semesters
Prerequisite: 3.0 overall grade point average; 3.5 grade point minimum in all social studies classes; completed and approved application
AP U.S. History surveys American history from the founding of the republic to the present. Students are required to complete college-level reading and writing assignments so they need strong reading and writing skills as well as high motivation and interest in history. This course is designed primarily for students interested in obtaining college credits through the Advanced Placement Program. The expectation is that all students who take the course will take the College Board exam in May; however, the course will be open to all interested students who meet the prerequisites.

AP MACRO/MICROECONOMICS A&B - NCAA APPROVED+GPA
Grades: 11, 12
Length: Two Semesters
A.P. Economics is a college level, full year course designed to provide students with a thorough understanding of the principles of economics. A.P. Economics will emphasize the study of national income, economic performance measures, economic growth and international economics. The aim of A.P. Economics is to provide students with a learning experience equivalent to that obtained in a typical college introductory level economics course. Topics reflect material included in both the AP Microeconomics and Macroeconomics Course Descriptions from The College Board. The course will be cover both areas of focus in order to best prepare students for the AP Micro and Macro exams in May. This course also fulfills the economics graduation requirement.

ECONOMICS - NCAA APPROVED
Grades: 9, 10, 11, 12
Length: One Semester
Economics introduces both micro and macro economic concepts, including, but not limited to, supply and demand, scarcity, global alliances, different economic systems, forms of business, inflation, and gross domestic product.

HONORS HUMANITIES A & B: History, Literature, and Culture of Western Civilization - NCAA APPROVED+GPA
Grades: 12 Length: Two Semesters – Select this course under the English course selections.
Honors Humanities is a two term, 2-hour blocked, interdisciplinary course. Humanities provides for a comprehensive study of Western civilization and culture, including history, literature, philosophy, art, and music. The course begins with Ancient Mesopotamia and continues through Ancient Greece, Rome, Medieval Europe and the Renaissance. This builds a

foundation for the rest of the class, which follows Europe's history and culture through the Baroque, the Enlightenment and the 19th and 20th centuries. Students read and discuss classic literature by such authors as Homer, Sophocles, Virgil, Dante, Shakespeare, Voltaire, Swift, Wilde, Kafka, and Frankl, as well as various works of poetry, drama, and a contemporary novel. Class activities include lecture, discussion, analytical writing, film analysis, art, and drama, culminating in a personal philosophical project at the end of the year.

IB BUSINESS AND MANAGEMENT SL - NCAA APPROVED (for Social Studies)+GPA
Grades: 11 or 12
Length: Two Semesters
IB Business and Management is a dynamic discipline that examines business decision-making processes and how these decisions impact on and are affected by internal and external environments. The course is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills. The application of tools and techniques of analysis facilitates an appreciation of complex business activities. The course considers the diverse range of business organizations and activities and the cultural and economic context in which business operates. Emphasis is placed on strategic decision-making and the day-to-day business functions of marketing, production, human resource management and finance. Links between the topics are central to the course, and this integration promotes a holistic overview of business activity. It aims to help students understand the implications of business activity in a global market. This course can be taken as a group 3 IB course or as a senior level Math DHS course.

IB WORLD RELIGIONS SL - NCAA APPROVED+GPA
Grades: 11 or 12
Length: Two Semesters
IB World Religions SL course is a systematic, analytical yet empathetic study of the variety of beliefs and practices encountered in nine main religions of the world. The course seeks to promote an awareness of religious issues in the contemporary world by requiring the study of a diverse range of religions. The course consists of an introductory unit, exploring five of the nine living world religions that form the basis of the syllabus. This is complemented by an in-depth study of two religions chosen from six world religions. This course seeks to promote respect for the diversity of religious beliefs, both locally and globally, with the aim of enhancing international and inter-religious understanding. Students will be encouraged to look at contemporary national and international issues regarding religion and how these may impact on ethical and legal issues.

IB PSYCHOLOGY HL 1A & 1B - NCAA APPROVED+GPA
Grades: 11
Length: Two Semesters

IB Psychology HL 1A & 1B introduces students to a scientific and integrative examination of behavior and mental processes. Learning objectives will center around the modern levels of analysis approach (interactionist approach or biopsychosocial model), which allows students to explore the beneficial application psychological research has for humans and encourages them to appreciate the diverse methodology necessary to synthesize an intercultural understanding of psychology. Specifically, students will practice the ability to evaluate knowledge by exploring issues such as validity, reliability, credibility and certainty. Students will examine to what extent the methods of the natural sciences are applicable to human sciences while also designing, conducting and evaluating their own psychological research experiment. Additionally, the course will include two units of specialized study, Developmental Psychology and Abnormal Psychology. Our study of Developmental Psychology will require students to become knowledgeable about how people change throughout the lifespan in the way that they behave, think and relate to others. The Abnormal Psychology unit of study will discuss the historical and cultural complexities of classifying "abnormal" behavior and will introduce a range of psychological disorders with an emphasis of knowledge on etiology, diagnosis and treatment. In both units, students will be required to demonstrate thinking and writing skills throughout their evaluation of psychological phenomena. This course satisfies the requirement for a Group Three Course for the IB Diploma Programme.

IB PSYCHOLOGY HL 2A & 2B - NCAA APPROVED+GPA
Grade: 12
Length: Two Semesters
Prerequisite: IB Psychology HL 1A & 1B
IB Psychology HL 2A & 2B further exposes students to a scientific and integrative examination of behavior and mental processes. Learning objectives will center around the modern levels of analysis approach (interactionist approach or biopsychosocial model), which allows students to explore the beneficial application psychological research has for humans and encourages them to appreciate the diverse methodology necessary to synthesize an intercultural understanding of psychology. Specifically, students will practice the ability to evaluate knowledge by exploring issues such as validity, reliability, credibility and certainty. Students will examine to what extent the methods of the natural sciences are applicable to human sciences while also designing, conducting and evaluating their own psychological research experiment. Additionally, the course will include two units of specialized study, Developmental Psychology and Abnormal Psychology. Our study of Developmental Psychology will require students to become knowledgeable about how people change throughout the lifespan in the way that they behave, think and relate to others. The Abnormal Psychology unit of study will discuss the historical and cultural complexities of classifying "abnormal" behavior and will introduce a range of psychological disorders with an emphasis of knowledge on etiology, diagnosis and treatment. In both units, students will be required to demonstrate thinking and writing skills throughout their evaluation of psychological phenomena. This course satisfies the requirement for a Group Three Course for the IB Diploma Programme.

IB 20th CENTURY WORLD HISTORY HL 1A & 1B : Rise and Fall of Communism and Authoritarian Regimes - NCAA APPROVED+GPA

Grade: 11

Length: Two Semesters

Prerequisites: American History

IB 20th Century World History HL 1A & 1B is a higher level, two-year class that centers on twentieth century events in Europe, Russia, and China. This course satisfies the requirement for a Group Three Course for the IB Diploma Programme. The primary focus is on communism and authoritarian regimes. In addition, an internal research project will be initiated the first year and completed in the second. Students will examine historical world events from an international perspective, attempting to understand how these events affected various world regions, and developing a deeper understanding of the impact of these events on the present.

Requires Summer work.

IB 20th CENTURY WORLD HISTORY HL 2A & 2B : Rise and Fall of Communism and Authoritarian Regimes - NCAA APPROVED+GPA

Grade: 12

Length: Two Semesters

Prerequisites: IB 20th Century World History HL 1A & 1B

IB 20th Century World History HL 2A & 2B is the second year of a two-year class that centers on twentieth century events in Europe, Russia, and China. This course satisfies the requirement for a Group Three Course for the IB Diploma Programme. The primary focus is on communism and authoritarian regimes. In addition, an internal research project will be initiated the first year and completed in the second. Students will examine historical world events from an international perspective, attempting to understand how these events affected various world regions, and developing a deeper understanding of the impact of these events on the present.

Requires Summer work.

IB GLOBAL POLITICS- NCAA APPROVED +GPA

Grades: 11-12

Length: Two Semesters

I.B. Global Politics SL (one-year) explores fundamental political concepts such as power, liberty and equality, in a range of contexts and at a variety of levels. It allows students to develop an understanding of the local, national, international and global dimensions of political activity, as well as allowing them the opportunity to explore political issues affecting their own lives.

Global Politics is a dynamic and stimulating subject which draws on a variety of disciplines in

the social sciences and humanities. The global politics course helps students to understand abstract political concepts by grounding them in real-world examples and case studies. The course also invites comparison between such examples and case studies to ensure a *transnational* perspective. Developing international mindedness and an awareness of multiple perspectives is at the heart of this course. It encourages dialogue and debate, nurturing the capacity to interpret competing and contestable claims.

PSYCHOLOGY - NCAA APPROVED
Grades: 11, 12
Length: One Semester
Psychology is a survey course that introduces students to basic concepts, theories and contributions to how the human mind influences personal behavior. Past and current theories are explored. Topics include the nervous system and endocrine system, sensation and perception, learning and memory, developmental psychology, theories of motivation and clinical psychology. Course activities and assessments are designed to develop skills in analysis and evaluation through an exploration of psychological phenomena.

SOCIOLOGY - NCAA APPROVED
Grades: 10, 11, 12
Length: One Semester
Sociology introduces students to the scientific study of human society and social behavior. The course emphasizes that the groups to which people belong largely shape human behavior and the social interaction that takes place within those groups. Topics covered include an analysis of culture and its components, social structure and organization, socialization and social self, stratification and societies (gender, race and social class) and deviance theory. Course content and activities are designed to explore society's various institutions through the application of sociological concepts and perspectives.

U.S. HISTORY A & B - NCAA APPROVED
Grades: 11, 12
Length: Two Semesters
Prerequisite: Instructor/counselor permission required
U.S. History covers chronologically the important concepts, people, and events that have affected the course of the United States from the 1890s to the present. This serves as the credit recovery course for *American History 9 A & B*.

WORLD HISTORY A & B – NCAA APPROVED
Grades: 10, 11, 12
Length: Two Semesters
This course investigates global patterns and interactions over time through a survey of events and trends within a particular region. ***World History A*** requires students to explore the

contributions geography and historical events have had on the creation of global networks of exchange and its resulting interdependence. ***World History B*** requires students to further analyze and evaluate global interdependence and how regions attempted to maintain or expand their autonomy. Course content aligns with Michigan High School Content Expectations for World History.

PHYSICAL EDUCATION & HEALTH

LIFETIME FITNESS & SPORTS
Grades: 9, 10, 11, 12
Length: One Semester
Lifetime Fitness and Sports is a graduation requirement that teaches basic health concepts dealing with exercise, nutrition, and maintaining a healthy lifestyle. Daily fitness workouts along with sports and activities ranging from net/wall games, invasion games, aerobics, aquatics, resistance training, and more are used to improve the physical condition of the students. Students are expected to actively participate on a daily basis, and tests are given to measure both knowledge and physical progress.

HEALTH & WELLNESS
Grades: 9, 10, 11, 12
Length: One Semester
Health & Wellness is a graduation requirement that acquaints students with important aspects of total individual health. Areas of study include social, emotional, and physical health (which may include coping with loss & grief, mental illness, nutrition, weight control, substance abuse, reproductive health issues, disease prevention, and much more). Discussions, labs, projects, current events, and other active learning opportunities are also included. CPR certification may or may not be included in this program.

AEROBICS
Grades: 9, 10, 11, 12
Length: One Semester
Aerobics provides a fitness class for students dedicated to personal improvement. Students will maintain or improve his/her cardiovascular endurance, muscular strength and endurance, coordination, and flexibility; while maintaining or developing a healthy body composition; and learn new training methods. Activities may include yoga, pilates, step aerobics, jazzercise, kickboxing, circuit training, the use of fitness equipment, and many more video-led and instructor led workouts. Understanding and application is assessed through aerobic presentations, write-ups, a mid-term project, and group exam video.

STRENGTH & CONDITIONING FOR PERFORMANCE

Grades: 9, 10, 11, 12
Length: One Semester
Strength and Conditioning for Performance provides students with the opportunity to do serious weight training, speed training, and flexibility exercises, that are monitored and part of the bigger, faster, stronger individual athletic program. Students will also work on improving their skill level in their particular sport, (sport could be in or out of season), as well as be exposed to proper training and nutrition.

AQUATICS
Grades: 9, 10, 11, 12
Length: One Semester
Prerequisite: Basic swimming skills
Aquatics engages students in a variety of swimming activities to improve cardiorespiratory endurance, improve swimming skills, and learn new aquatic fitness activities.

INDIVIDUAL & TEAM SPORTS
Grades: 9, 10, 11, 12
Length: One Semester
Individual & Team Sports involves participation in a variety of Invasion games such as Indoor or Outdoor Soccer, Touch Football, Basketball, Team Handball, Ultimate Frisbee; Net/wall games such as Tennis, Badminton, Pickleball, Table Tennis; and Striking/fielding games such as Softball, Baseball, Cricket as well as other recreational games. Students improve their basic playing skills, acquire a better knowledge for game play and strategies, practice good sportsmanship and team play behavior, and improve their general fitness through participation. Understanding is assessed through written and skills tests in the areas of history, positions, strategies, scoring, rules, skills, drills, etc.

YOGA AND MINDFULNESS
Grades: 9, 10, 11, 12
Length: One Semester
Yoga and Mindfulness- This class covers the fundamentals of Vinyasa yoga, including breath, movement, and postural form. While also exploring other types of yoga such as Hatha, Ashtanga and Restorative yoga. This class is perfect for the student new to yoga and those who have taken it before This class will also focus on Mindfulness and allow students to relieve stress, reduce anxiety and acquire coping skills. Understanding is assessed through daily participation and a cumulative project at the end.

DHS WELLNESS CENTER
Grades: 9, 10, 11, 12
Length: One Semester
DHS Wellness Center- involves participation in a variety of Invasion games such as Indoor or Outdoor Soccer, Touch Football, Basketball, Team Handball, Ultimate Frisbee;

Net/wall games such as Tennis, Badminton, Pickleball, Table Tennis; and Striking/fielding games such as Softball, and disc golf as well as other recreational and fitness games. Students improve their basic playing skills, acquire a better knowledge for game play and strategies, practice good sportsmanship and team play behavior, and improve their general fitness through participation. Understanding is assessed through daily participation and a cumulative group project at the end.

F.A.S.S.T.- FLEXIBILITY, AGILITY, SPEED, & STRENGTH TRAINING
Grades: 9, 10, 11, 12
Length: One Semester
F.A.S.S.T. is designed for students to work on techniques and exercises that will improve their flexibility, agility, speed, and strength as an athlete. The weight room will also be used to emphasize the importance of a quicker and faster athlete.

SPORTS TECHNIQUE - FOOTBALL
Grades: 9,10,11,12
Length: One Semester
Sports Technique - Football is geared towards learning the history, rules, strategies, and techniques used in the game of football. Student will work on weight training techniques, flexibility, speed training, conditioning, and film study for the sport of football.

VISUAL, PERFORMING, AND APPLIED ARTS

English Visual, Performing, and Applied Arts

FILM/VIDEO/PHOTO

IB FILM STUDIES HL/SL A & B - +GPA
Grades: 11, 12
Length: Year long course for SL, 2 years for HL
IB Film Studies HL/SL 1A & 1B course offers students the ability to learn about film history, theory and technique. Students get to learn about the various aspects of film and then are given hands on opportunities to put that learning into action. There are three main external assessments, which include an oral commentary on a film clip where students describe how that clip fits into the overall movie; a documentary script written in two column format about a topic in film theory, history or genre; and a short film with an entire production portfolio. This course

fulfills the Group 6 requirement of the International Baccalaureate Diploma Program.*This course requires a summer assignment.* ***Requires Summer work.***

IB THEATER SL/HL A & B +GPA

Grades: 11, 12

Length: Year long course

IB Theater SL offers a practical subject that encourages discovery through experimentation, the taking of risks and the presentation of ideas to others. It results in the development of both theatre and life skills; the building of confidence, creativity and working collaboratively. It gives students the opportunity to make theatre as creators, designers, directors and performers. The theatre course encourages students to appreciate that through the processes of researching, creating, preparing, presenting and critically reflecting on theatre— as participants and audience members—they gain a richer understanding of themselves, their community and the world.

PHOTOJOURNALISM AND DESIGN

Grades: 9, 10, 11

Length: One term

Photojournalism and Design is a term long course open to freshmen, sophomores and juniors. A grade of B or better in this course is a prerequisite for those students interested in working on photography or design for the student newspaper or yearbook. Topics covered include: photo composition, effective use of digital cameras, and effective use of manual camera settings, effective design and use of typography. Students enrolled in this class will be required to take photos at various district events beyond the normal school day. This course meets the requirements for the VPAA graduation requirement of the MMC.

VISUAL, PERFORMING, AND APPLIED ARTS

ART & DESIGN

All art classes will follow a logical sequence of techniques to be mastered, cultural and world history, art criticism, and art history. The students will participate in sequential lesson plans, rather than individual projects based on differing techniques. Each unit of study will develop on the previous. Scaffolding the lessons ensures an integration of a large variety of subject areas. Dimensional artwork provides a holistic education that will serve the students as lifetime learners.

FOUNDATIONS OF ART

Grades: 9, 10, 11, 12

Length: One Semester
A course designed to build a solid foundation of knowledge and provide experience with various art methods, art history and media. Projects are designed to introduce the elements and principles of design and color theory. Students will experiment with drawing, painting, printmaking, sculpture and ceramics. This course will prepare the student for the advanced design, art criticism, and studio courses.

ADVANCED DRAWING AND PAINTING
Grades: 9, 10, 11, 12
Length: One Semester
Prerequisite: Foundations of Art and instructor permission.
Students build on their background developed in Foundations of Art to further master their drawing and painting skills. Students will review the elements and principles of design and utilize a working art vocabulary to participate in class critiques and art criticism. The units to be covered in Advanced Drawing and Painting are: Urban Art, Encaustic Paintings, Murals, and Fauvism.

JEWELRY
Grades 9, 10, 11, 12
Length: One Semester
Students will create original jewelry from raw metal materials. The topics and units that will be covered in the Jewelry class are: the elements and principles of design, negative and positive space, studio safety rules and procedures, bench sawing, file beveling, sanding, soldering, stone setting, stone inlay, chain construction, ring making, art analysis, and art criticism.

ILLUSTRATION
Grades: 9, 10, 11, 12
Length: One Semester
Prerequisite: Foundations of Art
Illustration class provides students with a broad introduction to numerous illustration theories, methods, styles and history. The specific topics that will be covered in the Illustration class are: the elements and principles of design, proportions, perspective, the illusion of light, the illusion of depth, the illusion of texture, pattern, design, textile design, cartooning, children's book illustrations, scientific illustration, comic book illustration, graphic illustration, personal logo designs, storyboards, anime, art analysis, and art criticism.

HOUSING & INTERIOR DESIGN
Grades: 10, 11, 12
Length: One Semester
Introduces students to the concepts of living environments throughout the world with a focus on the United States. Past and future housing is explored, but practical experience with today's living possibilities is stressed. Personal and psychological needs are examined. Students will learn about various types of housing units available, along with architectural styles, floor plans,

color, furniture styles, construction and arrangement. Skills in this project-based class will be applicable to both personal life and a potential career in home design. Housing & Interior Design may be elected to meet the Art graduation requirement.

GRAPHIC ARTS

GRAPHIC ARTS 1
Grades: 9, 10, 11, 12
Length: One Semester
Graphic Arts I Introduces the student to a variety of Graphic Communication processes currently used and how they are applied in our society today. History of communication is covered as well as evolution of the technology pertaining to Graphic Communication. Ethics and law are covered as they apply to Graphic Communication. Design principles/ layout process are introduced and applied in various projects. Graphic Arts photography is covered through lecture and projects. Safety and proper use of equipment are covered to prepare the student for further Graphic Communication classes. The class closes with an introduction to screen-printing.

GRAPHIC ARTS II
Grades: 10, 11, 12
Length: One Semester
Prerequisite: Graphic Arts 1B or Instructor's Permission
Graphic Arts II begins with a review of the Graphic Communication History/ Processes/ Applications/ Safety/ Law and ethics. Design projects are required along with visual display of the process. Single color screen-printing is covered and performance testing is required. Graphics lab equipment is introduced and basic operations will be performed. Students will spend time working on advanced design projects and producing the designs on various substrates. Careers in the Graphic Communication industry are researched in detail. The majority of the class is hands on projects created in the Graphic Arts Lab.

MUSIC

Wind and Percussion Instruments

VARSITY BAND
Grades: 9, 10, 11, 12
Length: Two Semesters
Prerequisite: Basic skills on a wind or percussion instrument; consent of director

CONCERT BAND

Grades: 9, 10, 11, 12
Length: Two Semesters
Prerequisite: Basic skills on a wind or percussion instrument; audition and consent of director

SYMPHONIC BAND
Grades: 10, 11, 12
Length: Two Semesters
Prerequisite: Audition and consent of director

Varsity Band, ***Concert Band***, and ***Symphonic Band*** presents students with appropriately challenging music to develop the five fundamentals of music: tone, intonation, rhythm, technique, and interpretation. Students are placed in the appropriate band according to ability level (audition), interview, and consent of the director(s). Students are graded on their individual preparation of music. An adequate amount of home practice on assigned parts is expected of all who elect band. Band performances and some rehearsals are held outside of the regular school day, and attendance at these activities is required. A calendar showing these activities as completely as possible is distributed at the beginning of each school year. Students who complete two years of high school band and at least one year of participation in Solo & Ensemble Festival are eligible for a varsity band letter. During the first nine weeks the *Varsity Band* and the *Concert Band* meet with the *Symphonic Band* to form the *Dreadnaught Marching Band*. The marching band performs at all home football games and the MSBOA district marching band festival.

All bands prepare at least three concerts and perform at festivals. Students participate in solo and ensemble festival and receive credit for doing so. *Symphonic Band* is offered for students who have already demonstrated a high level of musical achievement and who want the opportunity to perform the finest band music in the repertoire. Regular home practice on assigned parts is mandatory for all who elect Symphonic Band. Private lessons are strongly encouraged in this group.

String Instruments

CONCERT ORCHESTRA
Grades: 9, 10, 11, 12
Length: Two Semesters
Prerequisite: basic skills on a string instrument: consent of the director
Concert Orchestra offers any string students who have achieved basic skills on their instrument (violin, viola, cello, string bass, harp) the opportunity to rehearse and perform string and symphonic orchestra literature. Concert Orchestra competes in the high school solo and ensemble festival and the district orchestra festival and performs several school and benefit concerts each year. The first class focuses on string orchestra, solo and ensemble and

symphonic literature in conjunction with selected Concert Band members. An adequate amount of home practice is expected of all who enroll in Concert Orchestra. Because all performances and some rehearsals occur outside the school day, attendance at these is required.

CHAMBER ORCHESTRA
Grades: 10, 11, 12
Length: Two Semesters
Prerequisite: audition and consent of the director
Chamber Orchestra offers string students who have achieved a high level of performance skills on their instrument (violin, viola, cello, string bass, harp) the opportunity to perform advanced string and symphonic orchestra literature. Chamber Orchestra competes in the high school solo and ensemble festival and the district and orchestra festival. Chamber Orchestra performs several school and benefit concerts each year, and the Chamber Orchestra may accompany the school or community musical theater productions. Opportunities for small ensembles to perform for community and private functions are available during the year. The class weeks focuses on advanced string orchestra, solo and ensemble, and symphonic orchestra literature in conjunction with selected Symphonic Band members. Because all performances and some rehearsals occur outside the school day, attendance at these is required. A substantial amount of home practice is expected of all who enroll in Chamber Orchestra and private music lessons are recommended.

Choir

CONCERT CHOIR
Grades 9, 10, 11, 12
Length: Two Semesters
Prerequisite: Previous vocal training, audition and Director approval.
DHS Concert Choir provides students with previous training in vocal technique and sight-reading, a vocal music performance ensemble. This mixed-voice group includes soprano, alto, tenor, and bass voices. Students must function at a melodic level in sight-reading and be willing to participate in solo and ensemble festivals and additional concerts throughout the year. Students are encouraged to audition for State Honors Choirs and the Michigan Youth Arts Ensemble. Attendance at several concerts, choral festivals and the Madrigal Dinner Concert is required. Repertoire that is approved by the Michigan School Vocal Music Association is used as a basis for the curriculum.

CHAMBER CHOIR
Grades: 9,10, 11, 12
Length: Two semesters
Prerequisite: Previous vocal training and Director approval and Audition.

DHS Jazz Choir provides students with previous training in vocal technique and sight-reading, an advanced vocal music performance ensemble. This mixed-voice group includes soprano, alto, tenor, and bass voices. Students must function at a melodic level in sight-reading and be willing to participate in solo and ensemble festivals and additional concerts throughout the year. Students are encouraged to audition for State Honors Choirs and the Michigan Youth Arts Ensemble. Attendance at several concerts, choral festivals and the Madrigal Dinner Concert is required. Jazz choir may have several impromptu performances throughout the community, as they are the premier choral ensembles at Dexter High School. Repertoire that is approved by the Michigan School Vocal Music Association as well as a selection of quality arrangements of jazz, musical theatre and other lighter selections are used as a basis for the curriculum.

LANGUAGE OTHER THAN ENGLISH

FRENCH

FRENCH I A & B – NCAA APPROVED

Length: Two Semesters

French I— In this introductory French course students will begin exploring the language and cultures of the French-speaking world. In accordance with Michigan's standards and benchmarks and in preparation for the two-credit world language graduation requirement, all language courses are organized around the 5 Cs: communication, cultures, connections, comparisons, and communities. Students will develop and use their new language skills in speaking, listening, reading and writing while participating in an array of interpretive, interpersonal and presentational activities on topics ranging from describing onself, leisure activities, and shopping to eat out in a restaurant. Emphasis will be placed on the development of conversational skills. This class will fulfill one of the two World Language credits needed for graduation.

FRENCH II A & B – NCAA APPROVED

Length: Two Semesters

Prerequisite: French I

French II —In the second year of French students will review and build upon concepts learned in the first year while developing the knowledge and skills to prepare for and participate in an imaginary year abroad. In accordance with Michigan's standards and benchmarks and in preparation for the two-credit world language graduation requirement, all language courses are organized around the 5 Cs: communication, cultures, connections, comparisons, and communities. Further study of vocabulary and grammatical structures will enable students to use the language more effectively and accurately through developing speaking, listening, reading and writing skills while participating in an array of interpretive, interpersonal and

presentational activities. Emphasis will be placed on continuing the development of conversational skills to talk about oneself and others in both the present and past as well as the future. Additionally students will continue their learning of grammatical structures and parts of speech focusing on developing their ability to use the language more complexly. Upon successful completion of this class students will have fulfilled their two-year World Language requirement.

FRENCH III A & B – NCAA APPROVED
Length: Two Semesters
Recommended: C average or higher in French II
French III— In the third year of French, students will review and build upon concepts learned in the first two years. In accordance with Michigan's standards and benchmarks and in preparation for the two-credit world language graduation requirement, all language courses are organized around the 5 Cs: communication, cultures, connections, comparisons, and communities. Advanced study of vocabulary and grammatical structures will enable students to use the language more effectively and accurately through developing speaking, listening, reading and writing skills while participating in an array of interpretive, interpersonal and presentational activities. Emphasis will be placed on continuing the development of conversational skills with a focus on more complex grammatical structures in order to enhance spoken and written language.

IB FRENCH IV A & B/ IB FRENCH SL I A & I B – NCAA APPROVED +GPA
Length: Two Semesters
Recommended: C average or higher in French III
In the first year of IB French SL we will focus on further acquisition and refinement of the language of students who wish to pursue more advanced study of French. The main focus of the course is on language acquisition and development of language skills. These skills will be developed through the study and use of a range of written and spoken material. Some material will extend from everyday oral exchanges to literary texts, and will be related to the culture(s) concerned. The material is chosen to enable students to develop mastery of language skills and intercultural understanding. Class is conducted exclusively in French, and students are expected to communicate in the target language. This course fulfills the first half of the Group 2 IB Diploma Programme course requirement. NOTE: No IB French SL (Standard Level) Exams will be taken in this period year.

FRENCH V A & B / IB FRENCH SL II A & II B – NCAA APPROVED +GPA
Length: Two Semesters
Prerequisite: IB French SL1 OR (for non-IB diploma candidates who are seniors wishing to take the IB exam a recommended B average or higher in French III)
In the second year of IB French SL we will focus on further acquisition and refinement of the language of students who wish to continue more advanced study of French. The main focus of

the course is on language acquisition and development of language skills. These skills will be developed through the study and use of a range of written and spoken material. Some material will extend from everyday oral exchanges to literary texts, and will be related to the culture(s) concerned. The material is chosen to enable students to develop mastery of language skills and intercultural understanding. Class is conducted exclusively in French, and students are expected to communicate in the target language. Students will prepare to take all IB French SL (Standard Level) Exams over the course of this year. This course fulfills the second half of the Group 2 IB Diploma Programme course requirement.

SPANISH

SPANISH I A & B – NCAA APPROVED
Length: Two Semesters
Spanish I— In this introductory Spanish course, students will begin learning about the language and culture of Spanish-speaking countries. The classes are taught in accordance with Michigan's standards and benchmarks. Students will develop their speaking, listening, reading and writing skills while participating in an array of interpretive, interpersonal and presentational activities. With the goal of building linguistic and cultural proficiency, students will be encouraged to construct meaning, link language and culture, and develop communicative strategies. Units of study will include introductory conversational skills, weather, describing oneself and others, home and family, school, eating out at a restaurant, health, and leisure activities. This class will fulfill one of the two World Language credits needed for graduation.

SPANISH II A & B – NCAA APPROVED
Length: Two Semesters
Prerequisite: Spanish I
Spanish II— In this continuation of Spanish I, students will review content that they learned in the previous year and will build upon that knowledge. The class is taught in accordance with Michigan's standards and benchmarks. Students will further develop their speaking, listening, reading and writing skills while participating in an array of interpretive, interpersonal and presentational activities. With the goal of building linguistic and cultural proficiency, students will be encouraged to construct meaning, link language and culture, and develop communicative strategies. Units of study will include travel, food and eating out at a restaurant, holidays in Spanish-speaking countries, technology, and life in the city and country. Upon successful completion of this class, students will have fulfilled their two-year World Language requirement.

SPANISH III A & B – NCAA APPROVED
Length: Two Semesters
Recommended: C average or higher in Spanish II

Spanish III—In this lower intermediate course, you will continue learning about the language and culture of Spanish-speaking countries. This course is taught using Michigan's standards and benchmarks. You will further develop your listening, speaking, reading and writing skills through communicative tasks. Our goal is to build proficiency with both the language and the culture. You will develop strategies to communicate both in speaking and writing and to interpret written texts, videos and other media. Units of study will include ordinary and extraordinary lives, Spanish and Latin American cuisine and food preparation, health and wellness in Spanish-speaking communities, rites of passage, common errands and house chores, manners and customs in the Spanish-speaking world, and the works and influence of Spanish-speaking artists and writers.

SPANISH IV A & B – NCAA APPROVED

Length: Two Semesters

Recommended: C average or higher in Spanish III

Spanish IV— In this continuation of Spanish 3, students will review content that they learned in the previous year and will build upon that knowledge. The class is taught in accordance with Michigan's standards and benchmarks. Students will develop their listening, speaking, reading and writing skills while participating in an array of interpretive, interpersonal and presentational activities. With the goal of building linguistic and cultural proficiency, students will be encouraged to construct meaning, link language and culture and develop communicative strategies. Topics of study will include a review, Latinos in the United States, personal relationships, nature and the environment, technology and science, economies and work, popular culture and the mass media, human rights / human diversity and music, movies and dining.

IB SPANISH SL 1A & 1B – NCAA APPROVED

Length: Two Semesters

Recommended: C average or higher in Spanish III for IB candidates OR B average or higher in Spanish III with teacher recommendation for non-IB candidates

IB Spanish SL 1A & 1B— This intermediate course is year 1 of IB Spanish SL, and has been designed for students who have successfully completed Spanish III. Students will use the Spanish language in a range of situations and for a variety of purposes. Through the study of authentic materials, both in written and spoken form, students will continue to develop their listening, speaking, reading, and writing skills. The topics and resources for this class have been purposely chosen to reflect the current reality, culture and historical background of the diverse Spanish-speaking world. Units of study will include changes in family structures, language and culture, traditional media and the Internet, health, and the environment. There will be an emphasis on how these issues are portrayed in the media and popular culture, and how they affect young people. This course will be taught in Spanish and students will be expected to use the language in class, as well as encouraged to explore ways to come into contact with the language outside of class. Language proficiency is also integrated with the International Baccalaureate goal of international mindedness. This course fulfills the first half of the Group 2

IB Diploma Programme course requirement. NOTE: No IB Spanish SL (Standard Level) Exams will be taken in this year.

IB SPANISH SL 2A & 2B – NCAA APPROVED
Length: Two Semesters
Prerequisite: IB Spanish SL1 OR a recommended B average or higher in Spanish IV
IB Spanish SL 2A & 2B—This intermediate to advanced course is year 2 of IB Spanish SL. All students who have successfully completed Spanish IV are also encouraged to take this course. Students will continue to use the Spanish language in a range of situations and for a variety of purposes. Through the study of authentic materials, both in written and spoken form, students will further refine their listening, speaking, reading, and writing skills. The topics and resources for this class have been purposely chosen to reflect the current reality, culture and historical background of the diverse Spanish-speaking world. Units of study will include customs and traditions, evolving roles of women, new technologies, immigration, global challenges, and human rights. There will be an emphasis on how these issues are portrayed in the media and popular culture, and how they affect young people. This course will be taught in Spanish and students will be expected to use the language in class, as well as encouraged to explore ways to come into contact with the language outside of class. Language proficiency is also integrated with the International Baccalaureate goal of international mindedness. This course fulfills the second half of the Group 2 IB Diploma Programme course requirement.

OTHER ELECTIVES

Family & Consumer Science Courses

HUMAN GROWTH & DEVELOPMENT
Grades: 10, 11, 12
Length: One Semester
Human Growth and Development introduces students to a wide range of topics designed to prepare them for the responsibilities of parenting or a career involving contact with children. These topics include readiness for parenthood; human reproduction and family planning; social, emotional, physical, and intellectual development of children; and current issues related to parenting and childcare. Other topics covered include day care careers, child abuse, quality day care, the three-career family, the effects of substance abuse on the family, children coping with death, etc. Students participate in community service. This course contains information about reproductive health and contraception and *Baby Think It Over*.

NUTRITION & FOOD SCIENCE

Grades: 9, 10, 11, 12
Length: One Semester
This class introduces students to the information and experience to select, purchase, and prepare adequate meals. Nutrition is stressed with emphasis on the daily food pyramid and dietary guidelines. Topics include shopping for nutritious food, food additives, weight management, nutrition for athletes, making food selections away from home, and careers related to the food industry.

HOUSING & INTERIOR DESIGN
Grades: 9, 10, 11, 12
Length: One Semester
Introduces students to the concepts of living environments throughout the world with a focus on the United States. Past and future housing is explored, but practical experience with today's living possibilities is stressed. Personal and psychological needs are examined. Students will learn about various types of housing units available, along with architectural styles, floor plans, color, furniture styles, construction and arrangement. Skills in this project-based class will be applicable to both personal life and a potential career in home design. Housing & Interior Design may be elected to meet the Visual, Performing, and Applied Arts graduation requirement.

General Elective Courses

STUDENT LEADERSHIP
Grades: 9, 10, 11, 12
Length: One Semester
S***tudent Leadership*** affords the opportunity for highly motivated students to work closely with other clubs and organizations within the school to promote school spirit, enact service projects that will benefit the school or greater Dexter community, and create new student events. The goal is to develop the existing student leadership in the building and increase their ability to positively affect the atmosphere of Dexter High School as well as develop the individual's character, teamwork, and leadership skills. After-school and evening activities will be part of the coursework.

PEER TO PEER (Links)
Grades: 9, 10, 11, 12
Length: One Semester
Peer to Peer is a peer-support class where the enrolled student acts as a mentor to a student with a disability and specific learning needs. A student enrolled in Peer to Peer (the "Link") will

be a mentor, role model, and friend to a student with specific learning needs. Link students learn to relate to individuals with different needs, develop an increased understanding of individual differences, and become leaders in compassion and tolerance in their school community. The Link student will attend case conferences to discuss the progress of student they support, and contribute ideas on how to more effectively help the student progress toward his/her goals. Link students are truly that; a link that connects a student with specific learning needs to a world of opportunity.
Requires confidentiality agreement

DEXTER HIGH SCHOOL WRITING CENTER
Grades: 10, 11, 12
Length: One Semester
DHS Writing Center aims to enhance all student writing, at all levels and in all disciplines. The Writing Center provides peer tutoring, classroom workshops, and resources for teachers. The goal of the writing center is to support in class writing from teachers and give students the opportunity to work with other students to get peer-to-peer help in their writing. Tutors will learn how to teach writing and mentor other students.

South and West Washtenaw Consortium

Career and Technical Education
Chelsea • Dexter • Lincoln • Manchester • Milan • Saline

AGRISCIENCE – ZOOLOGY/BOTANY (year AM/PM)
Prerequisite: Grades 11-12
Students who complete the 2 year (11th -12th grade) Zoology/Botany Cluster with a 2.5 GPA or higher and earn their State FFA Degree will receive 6 general university credits at MSU to be used toward any 4 year Bachelor's degree at MSU or 2 year MSU Institute of Ag Technology Certificate Program. In addition, students have the option to earn industry endorsed certificates in Professional Communications, Plant Science, Certified Green Industry Professional, Principles of Floral Design, Meat Evaluation and Principles of Livestock Selection and Evaluation.

The Zoology class provides the student with a solid foundation in pre-veterinary studies of livestock (food animals) and companion animals (horses, dogs, cats). Topics covered include: animal care, production, nutrition, health, classification, selection, anatomy, physiology, genetics, breeding, behavior, judging & showing animals, habitat management, and wildlife conservation.

The Botany class is taken by returning seniors as an online component with hands-on labs. Topics covered include: soils, fertilizers, land judging, anatomy, classification, processes, evaluation, nutrition, genetics, diseases, insects, weeds, crop production, biotechnology, hydroponics, water and the environment.

Membership and participation in activities of the local chapter of the National FFA Organization in leadership,

teamwork skills and personal development leading to achieving the State FFA Degree by December 31st 16 months into the 2 year program is required as part of the 6 credit MSU articulation. Developing and keeping records on an agriculture experience program outside of class time is a required component of the State FFA Degree/MSU credit articulation.

COMPUTER INTEGRATED ENGINEERING & MANUFACTURING (CAD/CNC) (year–AM)

Prerequisite: Grades 11-12

This program offers training in multiple methods of manufacturing. Students will learn how to produce products using manual mills and lathes, computer numerical control (CNC) mill and lathe machines, as well as rapid prototyping on a 3D printer. Students will learn to use problem solving skills to create models using AutoDesk (AutoCAD and Inventor) software, create toolpath programs/code using MasterCAM software, and master machining skills as they relate to manual machining, CNC machining, and 3D printing. The course will also stress the importance of shop safety, the design process in regards to engineering, blueprint reading, and measurement with precision tools. Enrolled students will have the opportunity to compete at SkillsUSA and MITES competitions. This course will prepare students for manufacturing curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find entry level employment in the fields of machining/programming and engineering technology.

Articulation is available with Washtenaw Community College.

ADVANCED PHOTOGRAPHY (year-PM)

Prerequisite: Beginning Photography, Grades 11-12

This class will cover all aspects of the photographic world, from traditional black and white fine art prints to digital masterpieces. Students will have the opportunity to express their creative abilities and explore the world of still images. It is designed for students to discover a new outlet for personal expression. Students will learn how to use 35 mm medium format and large format cameras, the chemistry and process of developing this film, as well as the artistic design to create a polished piece of artwork. Most of this equipment has historical value and is rarely used today. We will investigate many alternative processes that can create unique final prints. Students will use a Mac computer lab fully equipped with the Adobe Creative Suite in order to edit, manipulate and enhance digital photographs. This is a product used by photographers around the world. Using this technology in digital photography, students will create work that imitates what can be found in professional portfolios. Students will learn the historical aspects of photography as well as understand the photography industry. It is important that students understand the history of the art, but also have a vision of the future of the photography world.

Articulation is available with Washtenaw Community College.

AUTO TECHNOLOGY I (year + 1 additional period during 3rd tri [optional for Chelsea, Dexter, Lincoln, Manchester and Milan]– AM/PM)

Prerequisite: Grades 11-12

Students will learn the principles and functions of components as they pertain to automotive systems. The NATEF (National Automotive Technician Educational Foundation) Light Service and Repair curriculum is divided into four major areas of study including a light service unit, automotive engine diagnosis and repair, automotive electrical systems and braking systems. Included in the light service unit are topics ranging from safety, reference materials, fasteners, tools, precision measurement, wheels, tires and customer relations. In addition, vehicle systems like cooling and lubrication will be taught. The automotive engine area explores the testing and light repair of internal combustion engines. The automotive electrical systems unit includes all aspects from the basic battery, alternator and starter to advanced electrical diagnostics; while the braking systems unit covers all aspects of hydraulic principles, disc and drum braking systems, and anti-lock braking systems. The laboratory portion covers approximately 70 percent of this course. Internships are available through the A-YES Program. *Articulation is available with Washtenaw Community College.*

AUTO TECHNOLOGY II (year–early start)

Prerequisite: Auto Technology I

This course covers an advanced study of topics covered in the prerequisite course, plus additional instruction in five areas of study. The major areas of concentration are steering & suspension, engine performance & drivability, manual transmission & drive axle, automatic transmission and heating and air-conditioning. The steering & suspension unit covers many aspects of the current vehicle steering and suspension designs. The engine performance unit covers numerous topics including electronic fuel injection, computerized engine control; exhaust gas emission testing/analysis and ignition systems. The manual and automatic transmission units' are centered on maintenance and light repair. The students will be exposed to simple diagnosis and repair of the heating and air conditioning system. "State of the Art" diagnostic equipment will be emphasized throughout all units. This course is exclusively designed to provide the student with relevant and realistic "hands-on" training for preparation into the automotive servicing field, as well as establishing a foundation for possible careers as a Product Testing Technician, Dynamometer Technician, Service Manager, Parts Manager, Factory Service Representative and Engineering Technician. Students will have the opportunity to take the State mechanic certification exams at the conclusion of the course. Internships are available through the A-YES Program. *Articulation is available with Washtenaw Community College.*

BUILDING TRADES (year–AM/PM) – On-Site

Prerequisite: Grades 11-12

The Building Trades program prepares a student for employment in the construction industry. There is much for the student to learn in the field, and the immense diversity of career opportunities makes this industry one of the most interesting and challenging. The Building Trades class prepares the student with entry–level skills needed for employment through the actual construction of a house. The specific areas of study include: site preparation, drywall,

masonry, finish carpentry, rough carpentry, painting and wall covering, heating, plumbing, construction technique, wiring, insulation, management skills, and employability skills. A solid foundation in math skills are needed, geometry is recommended. *Articulation is available with Washtenaw Community College.*

CAREERS IN EDUCATION (year-AM/PM)

Prerequisite: Grades 11- 12, Application acceptance

Cadet Teaching is for students who are interested in exploring teaching as a profession. It provides students an opportunity to get hands-on experience in the classroom before entering a teaching program in college. This experience enables students to gain knowledge and an understanding of the teaching profession. This placement will aid in the career decision making process. Placements for cadet teaching field experience are made with a professional teacher in the student's home district. Students will receive a grade based on supervising teacher evaluations, on-site observation, related assignments and a classroom teaching portfolio. *Articulation is available with Mott Community College.*

COMPUTER AIDED DESIGN (year-PM)

Prerequisite: Seniors 1st priority/Juniors (w/ or w/o Machine Tool)

This program offers training in computer aided drafting (CAD) in regards to the fields of Engineering or Architecture. Students will gain an understanding of CAD, from basic measurement to 3D solid modeling and photo-realistic rendering, before they will have the opportunity to explore the design fields of Engineering and Architecture as they see fit. Curriculum will be tailored to individual student's skill level and interests using the most current AutoDesk software's (AutoCAD, Inventor, and Revit). In addition, students will be given the opportunity to rapid prototype (3D print) parts or build architectural models. Students will also have the opportunity to compete at the SkillsUSA and MITES competitions. This course will prepare students for engineering/architectural curriculum at the post-secondary level, and articulation agreements exist that allow college credits to be earned at certain colleges and universities. Students completing the course may find employment in entry level positions as draftsmen, architects, or an engineering assistant. *Articulation is available with Washtenaw Community College.*

COMPUTER SERVICING & ASSOCIATED ELECTRONICS (year–AM)

Prerequisite: Grades 11-12 and Algebra

This class is designed to provide the student with a foundation in basic electronics with concentration in computer systems construction, repair, troubleshooting and upgrading. Basic electrical fundamentals will be covered including DC circuitry, reading schematic drawings, wiring and soldering. The focus of the class will be in preparing students to be Computer Repair Technicians. Computer Technicians are in high demand and are responsible for troubleshooting

and repairing computers. Upgrading and total construction of PC's will be experienced in this class, following the industry standard of A+ computer repair certification standards. Students that excel will be prepared for A+ computer certification testing. *Articulation is available with Washtenaw Community College.*

COSMETOLOGY (2 years + 1 summer) - HVBA

Prerequisite: Grades 11-12

This program is open only to 11th and 12th grade students who have made a serious commitment to become a professional Cosmetologist. Limited space will be available for seniors who are willing to commit to a year beyond graduation to complete the program. The Cosmetology program offered through the South and West Washtenaw Consortium prepares a student for employment in one of our nation's largest personal service industries. The Cosmetology program prepares a student with the entry-level skills needed for employment in the beauty trades. Upon completion of the 1500 hours combined theory and clinical instruction the student will be qualified to take the Michigan State Board of Cosmetology exam. Class work includes the following areas of study: sanitation, bacteriology, cosmetology laws and rules, personal hygiene, hairshaping, hair dressing, fingerwaving, hair coloring, chemical reconstruction, applied anatomy, physiology and histology of the human head, hands, nails and skin, applied chemistry as related to skin, hair and nails, manicuring, facials, salon management and employability skills. Students must purchase required uniforms and arrange their own transportation to the West Ann Arbor location. There will be additional fees for students starting in their senior year. A counselor can provide further information and the required application forms. *Articulation is available with Mott Community College.*

CULINARY ARTS (Hospitality/Food Service) (year-AM/PM)

Prerequisite: Grades 11-12

This course is designed to introduce students to the hospitality industry, which includes Culinary Arts, Food Service, Hotel/Motel & Travel/Tourism, with a major focus on Culinary Arts. Students will learn and apply principles of safety, sanitation and food preparation. They will operate “The Hive”, our student operated restaurant, as well as do catering and special projects. In addition, they will learn and practice employability skills, goal setting, and problem solving. They will apply math and communication skills to work situations. Students will rotate through various kitchen stations including: broil cook, fry cook, pantry cook and prep cook. Students may take this class as a junior or senior or both. Students have the opportunity to earn a nationally recognized certificate through the National Restaurant Association with ServSafe and ProStart programs. *Articulation (up to 9 credits) is available at Ferris State University, Grand Rapids Community College, Henry Ford Community College, Lake Michigan College, Michigan State University, Washtenaw Community College, West Shore Community College, The Art Institutes, Cornell University, the Culinary Institutes of America, Kendall College, New England Culinary Institutes, Johnson and Wales University, and other colleges and universities across the US.*

GRAPHX (year, 2nd & 3rd hour) - Dexter High School

Prerequisite: Grades 11-12

GraphX Academy provides skills and experiences for the student interested in graphic arts/communications as a possible career or as background for advanced education after high school. GraphX students experience on-site visits throughout the school year to local printing companies where they are exposed to all areas of the company. This gives students the opportunity to experience the latest technology and employability skills needed to be successful in a graphic arts/communications career. The school-to-work transition is a major focus of the GraphX Academy. *Articulation is available with Ferris State University and Washtenaw Community College.*

HEALTH SCIENCE TECHNOLOGY - CHS/SHS/On Site

(year + 1 additional period during 3rd tri for Chelsea, Dexter, Manchester and Saline students; Lincoln and Milan students additional period will be during 2nd tri)

Prerequisite: Grades 11-12

Health Sciences Technology has been designed for eleventh and twelfth grade students interested in all levels of health careers at the professional and paraprofessional levels. Areas of study include anatomy and physiology, disease process, medical ethics, communications, medical terminology, career exploration and trends in healthcare. Students will develop skills in CPR, vital signs, safety and patient care skills that apply to multiple health fields, such as nursing, medicine, physical therapy, x-ray tech and more. Students will gain practical experiences in hospitals, long-term health facilities and professional working environments of the health career being considered. College bound students considering a career in the health field would benefit greatly from this course by determining their interest and abilities and experiencing it first hand. Students who complete all the requirements are eligible to take the State of Michigan tests to become Certified Nursing Assistant (CNA). The CNA certificate is required for the WCC Nursing Program. *Articulation is available with Washtenaw Community College and Ferris State University*.

HEALTH SCIENCES TECHNOLOGY INTERNSHIP (year)

Prerequisite: Health Sciences Technology; Permission of Instructor

Students who successfully complete the 1st year of Health Science as a junior may be eligible to apply for a 2nd year of Health Science in their senior year.

MARKETING I (year–AM/PM)

Prerequisite: Grades 11–12

This class is open to students interested in marketing, management or entrepreneurship. Students will learn vital skills necessary to be successful in any career they choose. The class focuses on marketing concepts, salesmanship, interviewing, merchandising, management, retailing, promotion and much more. Students will gain work experience in the school store, called “The Edge”, which includes ordering, pricing, displaying and promoting products, as well

as conducting market surveys. Each student will be given the opportunity to manage the store as a cashier or salesperson. The students will also be a part of the international association of marketing students, called DECA. As members of DECA, students can compete in areas related to marketing, management and entrepreneurship at the district, state and/or international levels. DECA also offers opportunities for students to participate in the development of social intelligence, leadership and community service. *Articulation is available with Washtenaw Community College.*

MARKETING II: (year)

Prerequisite: Marketing I

Students that enroll in Marketing II are of senior status and have successfully completed the Marketing I program as a junior. Marketing II students will mainly focus on the running of the school store. All concepts of marketing learned in the previous year will be employed. Tasks that will be re-learned and mastered are: knowing your target market, product selection for that market, pricing and financial reports involved in retailing, inventory management, promotions and advertising, selling techniques, customer service, and other skills needed to run a successful retail business. Other activities for Marketing II students will include computer simulations to expose students to experiences beyond the school store and classroom, related field trips, and guest speakers. There will also be an opportunity for students to fully participate in the DECA competitions offered through the Marketing program. *Articulation is available with Washtenaw Community College.*

VIDEO NEWS PRODUCTION (year-AM)

Prerequisite: Grades 11-12

The Video News Production class is an in-depth look at broadcast video and school news through digital media production. Students will learn the techniques needed to write, produce and output news stories and video media that impact your school and community. The broadcast aspect of news media is met by training students in the school broadcast studio and with online learning experiences in video production projects. Each student will be exposed to the latest broadcasting technology and techniques as they produce a weekly show called SHS Today. This show is aired every Friday throughout the school, local SCTN channel 18 and the web. Students will also be able to produce special interest shows working hand-in-hand with local community members. *Articulation is available with Washtenaw Community College.*

VIDEO NEWS PRODUCTION - LIVE PRODUCTION (year-PM)

Prerequisite: Video Production 1 and out of class taping availability

The Video News Production - LIVE PRODUCTION SECTION is an in-depth look at broadcast video and school event productions. It is a part of the South and West Washtenaw Consortium. Students will learn the techniques needed to shoot, edit, & produce LIVE events that impact their school and community. Each student will be exposed to the latest broadcasting technology and techniques as they produce weekly events such as Sports, Plays, Musicals, Concerts, and

Special Shows. Students will work hand-in-hand with the athletic department to produce promotional and ESPN style material for the school as well as many other special projects throughout the year.

VISUAL IMAGING TECHNOLOGY (year–AM)

Prerequisite: Grades 11-12

VIT is about the design and production of media. VIT focuses on two major types of media: print media and electronic media. Print media includes such things as posters, CD covers, business cards, t-shirts and many other products. Electronic media includes digital video and audio, digital photography, animation and flash applications for the Web. What's common between print and electronic media can be summed up this way, it's all digital. Given the dynamic nature and fluidity of the visual imaging industry, one of the primary goals of the class is to give students a broad range of experience which encompasses both print and electronic media. VIT is a hands-on class in which students learn about each stage of the media production process and then use those tools to complete various media production projects and assignments. VIT prepares students for a career path within the visual imaging industry. Going into a college level program or directly into the workforce during/after high school are viable career path options for aspiring VIT students. *Articulation is available with Washtenaw Community College.*

WELDING AND FABRICATION TECHNOLOGY (year–AM/PM)

Prerequisite: Grades 11-12

The Metal Processing and Welding Technology course prepares students for entry level employment in the welding and fabrication industry. Skill development in the joining processes of oxyacetylene welding, shielded metal arc welding, gas metal arc welding and gas tungsten arc welding will be developed, along with an introduction to brazing. Fabrication processes including shearing, bending, burning, and plasma-arc cutting, basic power tool operation including drill press, grinding and finishing through the development and construction of student projects. In addition, welding metallurgy and blueprint reading will be covered. Successful completion of this course will prepare the student for entry into industry or college for advanced study. *Students that excel may receive articulated college credits from Washtenaw Community College for this class and be prepared for the AWS welding certification test.*

CO–OPERATIVE EDUCATION (1/2 to 1 1/2 credits)

Prerequisite: Open to all seniors, or second trimester juniors who are concurrently enrolled in a related CTE class.

This program provides on-the-job training in Career & Technical Education (CTE) programs such as Building Trades, Business Technology, Early Childhood Education, Health Sciences Technology, Hospitality/Culinary Arts, Marketing and several trade and industrial occupations. Students must be covered under employer's Workman's Compensation and General Liability insurance policies, and work a minimum of 10 hours per week for credit to be awarded.

Students will be evaluated every six weeks by their supervisor. Submission of timesheet and meeting with the instructor will occur on a weekly basis. Students may register for After-School Co-op if schedule does not afford the ability for time release during the normal school day. One half (1/2) credit is issued per trimester for After School Co-op.

The *Career & Technical Education Center* (CTE Center)
Located at Saline High School – Room B223

The CTE Center is available to serve the needs of all students enrolled in the Career & Technical Education programs offered by the South and West Washtenaw Consortium. The Center provides students with a centrally located facility where they can receive assistance in developing specific academic skills related to their career oriented classes, in careful career planning, and in job placement. The Center also provides student assessment services and laboratory experiences related to individual career and technical needs. The goal of the CTE Center is to help all Career & Technical Education students attain their career objectives.

South and West Washtenaw Consortium
Career and Technical Education

Mission Statement

We, the member districts as the South & West Washtenaw Consortium, shall best educate students together in areas individual districts cannot do as well alone.

The Career and Technical Education Component of the South & West Washtenaw Consortium empowers its Students to be productive members of a changing technological world. The students are provided with the knowledge necessary to achieve the requisite skills, positive attitudes and work habits to meet those goals.

For More Information Contact:

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It is the policy of the South and West Washtenaw Consortium not to discriminate on the basis of race, color, national origin or ancestry, gender, age, disability, height, weight, religion, language or martial status in any of its programs, activities or employment. In addition, arrangements can be made to ensure that the lack of English language proficiency is not a barrier to admission or participation