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## **A message from the Nouvel Catholic Central Administration**

The curriculum at Nouvel Catholic Central High School is designed to meet the needs and interests of its students while developing the skills and attitudes needed to pursue excellence in their lives: college, career, family and community.

Our courses offer an integrated Christian approach with high expectations in which each student is challenged to fulfill his or her God-given potential. As a family-oriented school, the partnership between home and school is at the heart of student success. We seek and support outstanding faculty who love young people, life and teaching and are positive role models for our students.

The curriculum and instructional methods reflect best practice and keep pace with the changing demands of society. The contributors of the future must know how to locate specific information, understand and analyze, think critically, synthesize and apply concepts.

There are certain concepts that every student must master in the core subjects of math, science, language arts, global studies and theology. Elective courses in the arts, business or advanced study provide opportunities for specialization and/or career readiness. Students may also choose to participate in programs at Saginaw Career Complex, Delta College, Saginaw Valley State University, and Saginaw Arts and Sciences Academy.

The Guidance staff is available to assist with every aspect of the course selection process.



**NOUVEL CATHOLIC CENTRAL HIGH SCHOOL  
2018-2019**

**COURSE CATALOG**

**CAREER PATHWAYS**

Making career choices can be very difficult, especially as a high school student. The variety of choices and your personal desires add to the complexity of the task. The classes you choose in high school can help clarify your career interests.

This packet has been assembled to clarify the process of selecting high school courses and to further the career selection process. By using the Career Pathways concept, a student's career selection process is broadened. Instead of picking a single career, a student can choose a "career pathway."

Within each Career Pathway there are multiple career options that require many of the same skills, aptitudes and educational training. As you identify your interests, aptitudes and skills, you can match these to a career pathway. Within each pathway there are many specific career choices. Each choice may require a different amount of education, employment options and aptitudes; yet, may be closely aligned with all other options. A student interested in the Arts and Communication pathway will find hundreds of individual careers listed. The student's task is to find the one career that fits best for them.

The six pathways are:

- Arts and Communication
- Business, Management, Marketing and Technology
- Engineering, Manufacturing and Industrial Technology
- Health Sciences
- Human Services
- Natural Resources and Agri-science.

When combined with career exploration programs like M.O.I.S. (Michigan Occupational Information System), SIGI (System of Interactive Guidance and Information), or My Dream Explorer, you are able to explore, in depth, the careers within a particular pathway. As your career options become clearer, the course work listed on the attached sheets will help in planning your course choices for the coming years.

**Part of our responsibility is to assist you in your career information searches. This booklet is a starting point to answering the question, ‘*what do you want to be when you grow up*’. Keep in mind we are exploring broad areas of interest, aptitude and skills. We would ask that you enter the search with an open mind to all the possibilities.**

## **ARTS and COMMUNICATIONS**

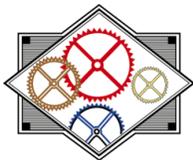


Careers in this pathway are related to the humanities and performing, visual, literary, and media arts. These include architecture, graphic, interior, and fashion design, writing, film, fine arts, journalism, languages, media, advertising, and public relations. Personal characteristics might include good writing skills, singing, acting or playing a musical instrument, or being comfortable performing public speaking activities.



## **BUSINESS, MANAGEMENT, MARKETING and TECHNOLOGY**

Careers in this pathway are related to the business environment. These include entrepreneur, sales, marketing, computer/information systems, finance, accounting, personnel, economics, and management. Personal characteristics might include good math skills, comfortable with sales, enjoying leadership situations, using computer programs with ease and being good at planning activities.



## **ENGINEERING, MANUFACTURING and INDUSTRIAL TECHNOLOGY**

Careers in this pathway are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies. Personal characteristics might include enjoying activities using machinery, tools, algebra, geometry and some physics, working on problems with difficult solutions and liking to see immediate results to your efforts.



## **HEALTH SCIENCES**

Careers in this pathway are related to the promotion of health and treatment of disease. These include research, prevention, treatment, and related health technologies. Personal characteristics might include interest in health issues, at ease when working with people, interest in how the body works and care about the wellbeing of people and animals.



## **HUMAN SERVICES**

Careers in this pathway are related to economic, political, and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services, and personal services. Personal characteristics might include enjoying interaction with people, demonstrated skill in writing and speaking, interest in helping others solve their problems, and helping people learn new skills.



## **NATURAL RESOURCES and AGRI-SCIENCE**

Careers in this pathway are related to agriculture, the environment, and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife. Personal characteristics might include interest in the care of the environment and animals, enjoying working outdoors, and do not mind working in a variety of weather conditions.

**Ask your counselor for a much more thorough list of information regarding each of these pathways including specific careers and course choices for high school career planning. You may also use the M.O.I.S. career search program for a much more thorough search of each career choice.**

## ACADEMIC PROGRAM OPTIONS

The Nouvel Catholic Central curriculum is varied to meet the needs and interests of each student. A total of 26 credits are required for graduation. The requirements include:

### College Preparatory Curriculum

Online experience is embedded in the curriculum.

Religious Studies	4 credits	Foreign Language	2 credits
English	4 credits	Fine Arts	1 credit
Mathematics	4 credits	Physical Education*	1 credit
Science	3 credits	Health	.5 credit
Social Studies	3.5 credits	Speech	.5 credit
Electives	4.5 credits		

\*PE is not required for students who complete three separate athletic seasons or 3 years of band.

### Honors Curriculum

Online experience is embedded in the curriculum.

Religious Studies	4 credits	Foreign Language	2 credits
English	4 credits	Fine Arts	1 credit
Mathematics	4 credits	Physical Education*	1 credit
Science	4 credits	Health	.5 credit
Social Studies	3.5 credits	Speech	.5 credit
Electives	3.5 credits		

\*PE is not required for students who complete three separate athletic seasons or 3 years of band.

### Honors Cord Requirements

All candidates for an Honor Cord must have the following:

- A cumulative 3.5 GPA at the end of the seventh semester.
- Successfully completed nine honors credits with at least one honors credit in each of their junior and senior years (AP classes are considered honors courses) following the honors curriculum outlined under academic program options.

***THE COURSES LISTED IN THIS CATALOG ARE ONLY ONE PART OF YOUR GRADUATION REQUIREMENTS. IN ADDITION TO 100 VOLUNTEER HOURS OVER THE FOUR YEARS YOU MUST ALSO COMPLETE THE NOUVEL CATHOLIC CENTRAL "COURSE OF STUDY".***

*The course of study incorporates service requirements, daily attendance, retreats, demeanor and participation in customs and courtesies of daily life such as Bacculaureate Mass, Senior Dinner and Commencement practice and exercises.*

**THEOLOGY (Four credits required for graduation; one course each semester)**

**0800 The Revelation of Jesus Christ in Scripture** 0.5 credit  
Grade 9 (1<sup>st</sup> Semester - Required)

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, how it was formed, and its value to people throughout the world. They will learn how to read the Bible, and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels where they will be introduced to the person of Jesus.

**0805 Who Is Jesus Christ?** 0.5 credit  
Grade 9 (2<sup>nd</sup> Semester - Required)

The purpose of this course is to introduce students to the Mystery of Jesus Christ, the Living Word of God, and the second person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate revelation to us from God. In learning about who he is the students will also learn who he calls them to be.

**0810 The Mission of Jesus Christ (The Pascal Mystery)** 0.5 credit  
Grade 10 (1<sup>st</sup> Semester - Required)

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

**0815 Jesus Christ's Mission Continues in the World Today (The Church)** 0.5 credit  
Grade 10 (2<sup>nd</sup> Semester - Required)

The purpose of this course is to help the students understand that in and through the Church they encounter the Living Jesus Christ. They will be introduced to the fact that the Church was

founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both Divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

**0820 Sacraments as Privileged Encounters with Jesus Christ** 0.5 credit  
Grades 11, 12 (1<sup>st</sup> Semester – Required)

**This class will be offered on odd school years.**

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

**0825 Life in Jesus Christ** 0.5 credit  
Grades 11, 12 (1<sup>st</sup> Semester – Required)

**This class will be offered on even school years.**

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

**0830 Living as a Disciple of Jesus Christ in Society** 0.5 credit  
Grades 11, 12 (2<sup>nd</sup> Semester – Required)

**This class will be offered on even school years.**

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

**0835 Ecumenical and Interfaith Issues** 0.5 credit  
Grades 11, 12 (2<sup>nd</sup> Semester – Required)

**This class will be offered on odd school years.**

The purpose of this course is to help the students understand the manner in which the Catholic Church relates to non-Catholic Christian churches and denominations as well as to other religions of the world. Building on the foundational truth that the fullness of God's Revelation subsists in the Catholic Church, the course is intended to help students to recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches and in non-Christian religions. It is also intended to help them to recognize the ways in which other systems of belief and practice differ from the Catholic faith.

**0836 Christian Leadership**  
Grades 11, 12 (Elective)

0.5 credit

The purpose of this course is to train young people for youth leadership positions within the Catholic faith. The course goal is to foster personal spiritual growth in each student and to draw them to responsible participation in the life and mission of the Catholic Church. Students enrolled in this course will be expected to plan and lead retreats, head up service projects, and take on leadership roles in liturgy and other faith-building activities on campus.

**0837 Basic Philosophy**  
Grades 11, 12 (Elective)

0.5 credit

The purpose of this course is to contemplate the following questions: What is truth? What is beauty? What is goodness? How can the human person be both matter and spirit? Are there limits to freedom? Where does the moral law come from? How can we know God? How can we know anything? These questions continue to be asked across generations and cultures, through the rise and fall of societies. Philosophy and religion, reason and faith, do not oppose but complement each other. This course offers a survey famous thinkers of philosophical history and delves in to these questions. This course will train you on how to think critically and confidently, how to develop the point of your arguments, and how to defend your positions orally and in writing.

**Volunteerism (Required for Graduation 100 hours of Community Service)**

**1 Peter 4:10**

*As each one has received a gift, use it to serve one another as good stewards of God's varied grace.*

As Catholic Christians we are called by Christ to serve one another. Nouvel Catholic Central requires students to document a minimum of 100 community service hours by graduation.

Students should complete a minimum of 25 hours per year in order to fulfill this requirement.

60/100 total required hours must be divided into 3 specific categories.

**20 hours = Community** (service completed for non-profit organizations outside of the Church or School environment)

**20 hours = Church/Parish** (service completed at or affiliated with a Parish or Church event)

**20 hours = School** (service completed at or affiliated with Nouvel High School or Elementary or any other school)

**The remaining 40 hours can be earned in any category or categories the student chooses.**

**All 100 required hours must be performed for non-profit organizations.** In the state of Michigan most of these organizations are qualified as 501(c)(3) nonprofits, which must operate for charitable, religious, scientific, literary, or educational purposes.

As part of our nature as Christians we respond to Christ's call to serve our fellow neighbor or family member on a daily basis, this is important and necessary. At Nouvel Catholic Central we require students to go above and beyond this initial call and to serve non-profit organizations within the community. Not only does this requirement fulfill our call as Christians, but it also serves to prepare students to be good citizens, college students, employees, and employers after graduation. This is the reason we do not allow service completed for private citizens or for a for-profit businesses (even if unpaid) to be counted toward the service requirement.

**ENGLISH (Four credits required for graduation) All English classes require supplemental readings.**

The English Department at Nouvel Catholic Central High School is committed to the pursuit of academic excellence. The foremost objective is to fashion a knowledgeable young adult capable of successfully adapting to a diverse ever changing global society. This will be achieved through rigorous and continuous strengthening of reading, writing, speaking, and listening skills. Critical thinking (Bloom's Taxonomy) is a core component of the expectations.

All English courses require Modern Language Association (MLA) format.

**Knowledge of reading and writing would most likely be valuable in any career but more so in the following career pathways: Arts and Communications; Business, Management, Marketing and Technology; Health Sciences; Human Services.**

**0840 & 0845 English I Literary Genres and Composition** 1.0 credit  
Grade 9

This course is designed to introduce students to various genres and emphasize the writing process. They will develop their writing skills by studying and practicing the writing of sentences, paragraphs, and short essays. This class is designated for students in need of basic reading and writing enrichment with individualized instruction. Additionally, focus on the development of effective communication skills in relation to the reading and writing concepts in the working world and/or college setting will be emphasized.

**0850 & 0855 CP English I Literary Genres and Composition** 1.0 credit  
Grade 9

This course is an introduction to the study of literary genres and the writing process. A major focus will be devoted to the preparation for college work and formal papers. Students will develop their writing skills by studying and practicing the writing of sentences and paragraphs leading up to effective compositions in various formats. Formal (MLA) and informal writing

styles will be incorporated in relation to the literature. Critical thinking as well as study and organizational skills will also be incorporated.

**0860 & 0865 Honors English I Literary Genres and Composition** 1.0 credit  
Grade 9

This course is designed to introduce students to a variety of literary genres, as well as development of reading, writing, and critical thinking skills. The primary objective is to teach students the writing and cognitive skills necessary to produce quality formal (MLA) and informal writing styles. Students will learn how various literary and figurative techniques enhance their literature experience. Students will be expected to write extensively throughout the year. The honors level encourages student responsibility, motivation, free thinking, and creativity while requiring students to work at a faster yet more efficient pace than lower levels.

**0870 & 0875 English II American Literature and Composition** 1.0 credit  
Grade 10

As a continuum from English I, this course aims to support individual student learning needs in reading, writing, speaking and listening through smaller class size and individualized instruction. Students will explore literary works by major American writers, focusing on how the literature of various historic time periods reflects changes in the culture and values of the United States. Moreover, students will explore their own values and cultural beliefs as they examine their individual connections to various literary works and themes. Increasing emphasis will be placed on development of reading comprehension and critical thinking skills, appreciation of literary genres, and appropriate use of basic essay formats and the writing process.

**0880 & 0885 CP English II American Literature and Composition** 1.0 credit  
Grade 10

This course is designed to acquaint students with the culture and values of the United States through an extensive study of its literature and authors in conjunction with historical time periods and to provide meaningful applications to the students' lives. The course also aims to reinforce and expand on correct writing formats with particular emphasis on general essay structure and critical thinking skills for both formal (MLA) and informal writings. Students will continue to build upon literary skills developed in prior English classes.

**0890 & 0895 Honors English II American Literature and Composition** 1.0 credit  
Grade 10

One of the primary objectives of this course is for students to learn about the culture of the United States and make thematic connections to their own lives. Through intensive study students will gain an appreciation of the diverse literature and accomplished authors. Emphasis will be directed toward enhancing critical thinking skills, motivation, creativity, and student responsibility through a faster paced class at a more concentrated level than college preparatory. The course also aims to strengthen formal (MLA) and informal writing formats that focus on a

higher level of cognitive skills for various purposes. This class will help students master previous literary skills as well as challenge them with new analytical concepts.

**0910 & 0915 CP English III British Literature and Composition** 1.0 credit  
Grade 11

The focus of this course will be to expose students to great literature from the Anglo-Saxon time period through Modern Times. Equally important is a study of Great Britain's history as it relates to the creation of powerful genres. Students will read to vicariously experience other times, places, and events: to acquire new information; and to gain insights into themselves and the human condition. They will continue to build upon the literary skills developed in prior English classes with a strong focus on active learning. Additionally emphasis will be devoted to elevating analytical skills in a variety of writing formats. With equal emphasis, writing assignments will be incorporated with the spotlight on the writing process (prewriting, drafting, revising, and proofreading), building upon skills refined in previous English classes.

**0920 & 0925 Honors English III British Literature and Composition** 1.0 credit  
Grade 11

The focus of this course will be to expose students to the rich literary traditions exemplified by British authors throughout history. The sequence of the selected readings will be, for the most part, chronological, beginning with works of the Anglo-Saxon period and concluding with those of the Modern Era. Throughout the survey, the students will be able to effectively evaluate the cultural evolution of our British heritage. Moreover, students will read a vast array of genres and participate in a variety of class discussions, group activities, written responses and oral presentations. In order to fulfill honors expectations, students will be challenged to develop more advanced critical thinking skills along with developing a more unique and sophisticated writing style. They will write fluently for multiple purposes to produce compositions (e.g. analytical and persuasive essays, research reports, creative writings, etc.). Students must actively participate in all aspects of the class in order to be successful.

**0930 & 0935 CP English IV World Literature and Composition** 1.0 credit  
Grade 12

This class is designed to acquaint students with authors, writings, and cultures around the world in accordance with historical time periods. Students will explore and analyze the diversity, significance, and relevance of world literature. Emphasis is placed on making personal and social connections with the historical background and cultural context of the authors and reading. In conjunction with the literature, a continuation of previously learned writing formats and styles will be perfected. Attention will be paid to understanding author's purpose, tone, structure, and techniques. Students will learn to model their own writing after patterns found in published authors' works and to find their own topic ideas from reading quality writing. Students will refine their grammar and sentence fluency skills through careful editing of their own work and that of peers. Polishing will be the final step in every writing process.

**0950 & 0955 AP English IV Literature and Composition**  
Grade 12

1.0 credit

Students will learn to read and comprehend some of the finest poetry, drama, novels, short stories, and essays written at various times in various cultures, with an emphasis on literature originally written in English. They will learn how to discover meaning in literature by being attentive to language, image, character, action, argument, and the various techniques and strategies authors use to evoke emotional responses from readers. Students will be expected to justify their interpretations by reference to details and patterns found in the reading requirements, to compare their interpretations with those proposed by others (e.g. teachers, classmates, and published literary scholars). In addition to all other types of writing, the analytical essay is a staple of the course. In order to write well, students must learn to sustain an argument while guiding a reader through well-organized evidence drawn from the details of a selection. Students are strongly encouraged to take the AP test in May.

**0872 Creative Writing & Reading (Elective)**  
Grades 10, 11, 12

0.5 credit

This course is designed to offer students the opportunity to engage in a vast array of writing and reading styles. Encouraging students to step out of their comfort zone and utilize their God given talents will highlight their untapped creative potential. This is also an opportunity that will allow students to take the initiative to actively collaborate with others. **MLA format is not the major focus as this is not a textbook driven course, such as the required 9-12<sup>th</sup> English curriculum.**

**0940 College Writing (Elective)**  
Grades 11, 12

0.5 credit

This course is designed to further systematically assist students as they prepare for the vast array of writing assignments required in college. MLA format is the focus of the course with additional attention given to other forms of discourse. Selected readings are required to supplement the course expectations.

**MATHEMATICS (Four credits required for graduation for all students). Michigan state curriculum standards require that students pass Algebra I, Geometry and Algebra II.**

**Knowledge of mathematics would most likely be valuable in any career but more so in the following career pathways: Business, Management, Marketing and Technology; Engineering/Manufacturing and Industrial Technology; Health Science; Natural Resources and Agriscience.**

To meet the Algebra/Geometry/Algebra II requirement, students will follow one of the following sequences:

***Students entering high school with a credit for Algebra I:***

9<sup>th</sup> - Honors Geometry, 10<sup>th</sup> - Honors Algebra II/Algebra II

***Students entering high school without a credit of Algebra I:***

9<sup>th</sup> - Geometry/Honors Geometry, 10<sup>th</sup> - Honors Algebra I/Algebra I, 11<sup>th</sup> - Honors Algebra II/Algebra II

***Students who need to strengthen math skills before learning Geometry and Algebra:***

9<sup>th</sup> - Algebra Essentials, 10<sup>th</sup> - Geometry & Algebra I, 11<sup>th</sup> - Algebra II OR  
11<sup>th</sup> & 12<sup>th</sup> - Algebra II (4 semester)

**0960 & 0965 Algebra Essentials**

1.0 credit

Grade 9

The aim of Essentials is to strengthen students' mathematical skills that are necessary for success in Algebra courses and to introduce basic Algebra skills at a slower pace than the Algebra I class. The course content includes operations with positive and negative numbers, fractions, decimals, percents, monomials and polynomials, systems of equations and applications through story problems.

The expectation is that students will follow up with a year of Algebra I after completing Algebra Essentials.

**0970 & 0971 Algebra I**

1.0 credit

Grade 10

The topics in Algebra I (Applications, Equations, Graphs) include properties of real numbers, linear equations and inequalities, systems of linear equations and inequalities, exponents, radical and rational expressions, correlation, linear regression and arithmetic and geometric sequences. Students will graph, solve and apply linear, exponential, and quadratic functions and will create plots of data.

Prerequisite: Geometry or Algebra Essentials

**0980 & 0981 Honors Algebra I**

1.0 credit

Grade 10

The topics in Algebra I (Applications, Equations, Graphs) include properties of real numbers, linear equations and inequalities, systems of linear equations and inequalities, exponents, radical and rational expressions, correlation, linear regression and arithmetic and geometric sequences. Students will graph, solve and apply linear, exponential, and quadratic functions and will create

plots of data. Students will complete a function portfolio and in-depth writing assignments.

Prerequisite: “B” average in Honors Geometry or an “A” average in Geometry and teacher recommendation.

**1000 & 1005 Geometry** 1.0 credit  
Grades 9, 10

Geometry includes such topics as proofs (two-column and paragraph), inductive and deductive reasoning, transformation, congruence and coordinate geometry. Similarity, right triangle trigonometry, properties of circles, and three-dimensional figures will also be studied and applied.

Prerequisite: Eighth grade math and teacher recommendation.

**1020 & 1025 Honors Geometry** 1.0 credit  
Grade 9

This course gives students the opportunity to study more rigorous geometry skills at a faster pace than regular geometry. There is an emphasis on algebra skills and outside projects.

Honors Geometry includes such topics as proofs (two-column, paragraph, and flow), inductive and deductive reasoning; coordinate geometry, transformations, and congruence. Similarity, trigonometry, properties of circles, and three-dimensions figures will also be studied and applied.

Prerequisite: Eighth grade math and teacher recommendation.

**1040 & 1041 Algebra II** 1.0 credit  
Grades 10, 11, 12

Students will study a variety of functions in Algebra II including polynomial, rational, radical, exponential, logarithmic, inverse and trigonometric functions. Other topics include: complex numbers, Binomial Theorem, radian measure, the unit circle, sequences and series, understanding data collection and analysis in relation to the normal distribution, and graphical representation of data and trigonometric graphs. Students entering Algebra II may be required to do summer work to prepare for class.

Prerequisite: Algebra I

**Algebra II – 4 Semester Class**  
**1046 & 1047** Grade 11 – Semester 1 & 2 1.0 credit  
**1048 & 1049** Grade 12 – Semester 3 & 4 1.0 credit

The four semester Algebra II course covers the same content as the two semester Algebra II course, except at a slower pace. During the first year, the students will study linear, quadratic,

polynomial and radical functions as well as inequalities, powers, roots, Binomial Theorem and complex numbers. During the second year, the students will study exponential, logarithmic, trigonometric and rational functions, sequences and series, radian measure, the unit circle and understanding data collection and analysis in relation to the normal distribution. **Students taking the four semester Algebra II course will need parental permission to create a Personal Curriculum that will allow the student to receive 2 credits for Algebra II.**

Prerequisite: Algebra I and teacher recommendation.

**1050 & 1055 Honors Algebra II** 1.0 credit  
Grades 9, 10, 11

An in-depth emphasis is placed on functions in Honors Algebra II (Applications, Equations, Graphs). Students will study a variety of functions including polynomial, rational, radical, exponential, logarithmic, inverse and trigonometric functions. Other topics include: complex numbers, Binomial Theorem, radian measure, the unit circle, sequences and series, understanding data collection and analysis in relation to the normal distribution, and graphical representation of data and trigonometric graphs. Students entering Honors Algebra II may be required to do summer work to prepare for class.

Prerequisite: “B” average in Honors Algebra I or an “A” average in Algebra I and teacher recommendation.

**1060 Trigonometry** 0.5 credit  
Grade 12 (Offered 1<sup>st</sup> semester)

This course is offered for the student who is interested in math but is not prepared for the more advanced course of Pre-Calculus. Included in the course study are: solving right triangles, angular and radian measures, trig functions and their graphs, using trig equations identities, solving equations that contain trigonometric functions, polar and rectangular coordinates, Law of Sines and Law of Cosines.

Prerequisite: Algebra II

**1065 Statistics** 0.5 credit  
Grade 12 (Offered 2<sup>nd</sup> semester)

This one-semester course in elementary statistics is designed for college bound seniors. Topics include: data collection and sampling practices, data analysis and display, measures of center and variation, probability, random variables, binomial, Poisson and normal distributions. Students will study the practical applications of statistics in the fields of business, science, and education.

Prerequisite: Algebra II

**1070 & 1075 Pre-Calculus**  
Grades 11, 12

1.0 credit

This one-year class is a continuation of Algebra II topics. It reviews and expands on the same material as Honors Pre-Calculus but moves at a slower pace. New topics include vectors, polar coordinates, complex numbers, trigonometry, exponential and logarithmic functions. The goals include: developing proficiency with mathematical skills, expanding understanding of mathematical concepts using the graphing calculator, and preparing students for a college pre-calculus or calculus course.

Prerequisite: Algebra II

**1080 & 1085 Honors Pre-Calculus**  
Grades 10, 11, 12

1.0 credit

This one-year class is a continuation of Algebra II topics. It reviews and expands on the concepts of Algebra II in greater depth and difficulty including applications methods. New topics include vectors, polar coordinates, complex numbers, trigonometry, conics, exponential and logarithmic functions and an introduction to limits. The goals include: developing proficiency with mathematical skills, expanding understanding of mathematical concepts using the graphing calculator, and preparing students for an AP or college calculus course.

Prerequisite: “B” average in Honors Algebra II or an “A” in Algebra II and a written teacher recommendation.

**1100 & 1105 AP Calculus AB**  
Grades 11, 12

1.0 credit

AP Calculus consists of a full high school academic year of work that is comparable to a Calculus I course at the collegiate level. The AP Calculus course is an extremely rigorous class that calls on the skills and information acquired from previous math courses to perform limits, derivatives, antiderivatives, integrals and differentials with major emphasis on applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. **There will be summer course work to be completed and turned in at the beginning of the course in September. It is expected that students who take AP Calculus will seek college credit through the AP Calculus exam given by the College Board each spring.**

Prerequisite: “B” average in Honors Pre-Calculus.

**1101 & 1106 AP Calculus BC**  
Grade 12 (May be online or in-class, based on enrollment)

1.0 credit

AP Calculus BC consists of a full high school academic year of work that is comparable to a Calculus II course at the collegiate level. The AP Calculus BC course is an extremely rigorous

class that continues and expands on the topics of AP Calculus AB and calls on the skills and information acquired from previous math courses to perform limits, antiderivatives, integrals, and differentials with major emphasis on applications. Additional topics include Euler's Method, L'Hospital's Rule, additional integration rules, derivatives of parametric, polar, and vector functions, as well as polynomial approximations and series. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. **There will be summer course work to be completed and turned in at the beginning of the course in September. It is expected that students who take AP Calculus will seek college credit through the AP Calculus exam given by the College Board each spring.**

Prerequisite: "B" average or higher in AP Calculus AB.

**SCIENCE (Three credits required for graduation; four credits are required for the Honors program). The State of Michigan requires one credit of Biology and one credit of either Chemistry or Physics to graduate.**

**Knowledge of science would most likely be valuable in any career but more so in the following career pathways: Engineering/Manufacturing and Industrial Technology; Health Sciences; Natural Resources and Agri-science.**

**1110 & 1115 CP Biology**  
Grade 9

1.0 credit

This course emphasizes biochemistry, cytology and cellular division, molecular genetics, Mendel's genetics, classification, biodiversity, and ecology. The content for this course includes biological structures and functions, processes and cycles, and systems. Emphasis is placed on explanation, description, analysis, and laboratory study. Skills in observation, experimental design and analysis, and the use of the microscope are developed throughout the course. The course is intended to provide the student with a basic knowledge of biology leading to further study at the secondary or university level. For all students the course provides a foundation for life-long learning and interaction with issues in biology.

**1120 & 1125 Honors Biology**  
Grade 9

1.0 credit

This course covers the same material at CP Biology; however, students will be expected to answer an increase of high-level questions on unit tests and to express their scientific knowledge in writing for each unit. In addition, for each unit the student will be expected to complete a unit project which will involve synthesis skills. High-self motivation, excellent work ethic, interest, and enthusiasm for science are a must.

Prerequisite: "A" in 8<sup>th</sup> grade science, 8<sup>th</sup> grade science teacher's recommendation, and must test to be in Honor's level 9<sup>th</sup> grade English.

**1130 & 1135 Chemistry**  
Grades 10, 11, 12

1.0 credit

This course is for the college-bound student who needs a sound science background. The structure and properties of matter are studied along with chemical bonding, stoichiometry, gases, liquids and solids, and chemical thermodynamics. There is a great deal of math involved in this course. Lab activities will be performed in correlation with material covered. Any students seriously considering entering engineering or medical/health related schools in college are highly recommended to take chemistry and physics.

Prerequisites include: One year of Biology and Algebra I. **Must have had or be taking Geometry.**

**1140 & 1145 Honors Chemistry**  
Grades 10, 11

1.0 credit

The same as Chemistry except students will move at a faster pace. The amount of material is increased and is covered in more depth than that of the College-Preparatory Chemistry. A higher level of problem solving is also expected. Lab activities will be performed in correlation with material covered. Any student seriously considering entering engineering or medical/health related schools in college are highly recommended to take chemistry and physics as they are required by many colleges.

Prerequisites: "A/B" average in Biology and "A/B" average in Algebra I strongly recommended. **Must have had or be taking Geometry.**

**1150 & 1155 Anatomy and Physiology**  
Grades 11, 12

1.0 credit

Students who are interested in the workings of the human body but are not planning a career in health or medical science are encouraged to enroll in this course. The structure and function of the human body will be covered. Students will also explore different medical-related careers through assignments and projects. The Manniken<sup>R</sup> Anatomy in Clay System is used as a teaching tool.

Prerequisite: Successful completion of one year of Biology and one year of Chemistry is required.

**1160 & 1165 Honors Anatomy & Physiology**  
Grades 11, 12

1.0 credit

This course is designed for the college prep student who plans to pursue a health related career. The structure and function of the human body is examined in great detail using the Manniken<sup>R</sup>

Anatomy in Clay System and various careers related to medical science are explored.

Prerequisite: One year of Biology and one year of Chemistry; “B” average in science.

**1170 & 1175 Physics** 1.0 credit  
Grades 11, 12

This course offers an introduction to the fundamental laws of nature on which all science is based. Through discussion, laboratory exploration and problem solving, students will use the skills that have previously learned in algebra and geometry to study the topics of mechanics, work, energy, power, waves, sound, light and electricity. Students interested in engineering, science, math or medical/health related fields are highly recommended to take physics in high school.

Prerequisites: Algebra I and Geometry.

**1180 & 1185 Honors Physics** 1.0 credit  
Grades 11, 12

This course is designed for honors level juniors and seniors with a strong math and science background interested in pursuing a career in science, math, or engineering. Students will engage in discussion, laboratory exploration and problem solving to discover and verify the fundamental laws that govern the world around them. Topics include mechanics, work, energy, power, waves, sound, light and electricity. Due to the rigor of this course, solid mastery of algebra and geometry skills is required for success. Students will have the option of taking the AP Physics I exam at the end of the course. Success on this exam may earn the students credit for one semester of an algebra based college level physics course.

Prerequisites: Honors Algebra I and Honors Geometry.

**1181 & 1186 AP Physics C**  
Grades 11, 12

Designed for students interested in pursuing careers in science, engineering, or math, this challenging calculus-based course follows College Board guidelines in the study of advanced Newtonian mechanics. Students will engage in discussion, laboratory experiences and problems solving to discover and verify the physical laws which govern our world. While prior experience with physics is not required, students should be enrolled in calculus while taking this course. Students successful on the AP Physics C exam at the end of the course may earn credit for one semester of college level calculus based physics.

Prerequisites: Calculus, AP Calculus, or higher.

**1190 & 1195 AP Biology**  
Grades 11, 12

1.0 credit

Designed for juniors and seniors interested in pursuing a career in science or the medical field. Topics will range over the whole spectrum, from cell biology and cellular processes to human anatomy and physiology and ecology. Students will perform original lab work; do research projects, and structured labs. Students are strongly encouraged to take the AP exam in May. Prerequisite: One year Honors Chemistry and one year Honors Biology with a “B” average. Students are also strongly encouraged to speak with the instructor prior to enrolling.

**1200 & 1205 Honors Chemistry II (Same as AP Chemistry)**  
Grades 11, 12

1.0 credit

Only students who will be taking chemistry in college should consider taking this course. The purpose of the AP Chemistry course is to cover the basic facts and principles of Chemistry in detail. Upon completion of the course, the student may take the AP Chemistry exam to receive College Science Credit. Lab activities will be performed in correlation with material covered. Independent study is strongly needed because of the rapid pace of the course. A large amount of problem solving takes place in the class. Students are strongly encouraged to take the AP exam in May.

Prerequisites: “A” in Honors Chemistry, and “A/B” average in math.

**1210 & 1215 Chemistry II**  
Grades 11, 12

1.0 credit

Chemistry II is designed for those students who wish to investigate chemistry for a further year, but who are not interested in taking the AP exam. The material will mirror the Honors Chemistry II/AP course, but will proceed at a slower pace and cover fewer topics. Even with this in mind, the course will be more demanding than first year Honors Chemistry. Emphasis will be on problem solving and lab work. Also, included will be an extended unit introducing students to Organic Chemistry.

Students who finish the course should be solidly grounded in preparation for any college freshman chemistry they encounter.

Those students who are thinking about medical, dental or other science related careers should seriously consider either Chemistry II or Honors Chemistry II/AP.

Prerequisites: B or above in Honors Chemistry or A in Chemistry.

**1240 Ecology**  
Grades 10, 11, 12

0.5 credit

This course will examine relationships between organisms and their environments from the

perspective of populations and communities and list factors that can affect each other. The integration of different abiotic cycles will be evaluated with particular attention given to how they can impact biodiversity as well as energy transfer throughout the ecosystem. Emphasis is placed on explanation, description, analysis, project-base research and laboratory study. For all students the course provides a foundation for life-long learning and interaction with issues in ecology.

Prerequisite: Grade 10 must be concurrently enrolled in Chemistry and have earned a B or above in Biology.

**1241 Human Genetics** 0.5 credit  
Grades 10, 11, 12

Beginning with DNA structure and protein synthesis and progressing through gender determination, eye color, hair color, and blood types, this class will help figure out why we look the way we do. Population genetics, sex-linked traits, and genetic diseases will also be explored. Final project will be a research project on a genetic condition.

Prerequisite: Grade 10 must be concurrently enrolled in Chemistry and have earned a B or above in Biology.

**1246 Forensic Science** 0.5 credit  
Grades 10, 11, 12

Study the methods used in victim identification and criminal investigation including DNA and fingerprinting.

Prerequisite: Grade 10 must be concurrently enrolled in Chemistry and have earned a B or above in Biology.

**1247 Zoology I** 0.5 credit  
Grades 10, 11, 12

This course involves the survey of the invertebrate animal kingdom with emphasis on the evolution, structure and function, habitat, and body systems. This course includes a deeper look into classification, porifera, cnidarians, platyhelminthes, nematodes, annelids, mollusks, arthropods. Emphasis is placed on explanation, description, analysis, research, presentations, and laboratory study. Skills in observation, dissection, project presentation and the use of the microscope are developed throughout the course. The course is intended to provide the student with a basic knowledge of the major characteristics of invertebrate zoology.

Prerequisite: Grade 10 must be concurrently enrolled in Chemistry and have earned a B or above in Biology.

**1248 Zoology II**

0.5 credit

Grades 10, 11, 12

This course involves the survey of the vertebrate animal kingdom with emphasis on the evolution, structure and function, habitat, and body systems. This course includes a deeper look into classification echinoderms, fish, amphibians, reptiles, aves, and mammals. Emphasis is placed on explanation, description, analysis, research, presentations, and laboratory study. Skills in observation, dissection, project presentation and the use of the microscope are developed throughout the course. The course is intended to provide the student with a basic knowledge of the major characteristics of vertebrate zoology.

Prerequisite: B or better in Zoology I and Biology. Grade 10 must be concurrently enrolled in Chemistry.

**SOCIAL STUDIES (Three and one-half credits are required for graduation)**

**Knowledge of the social sciences would most likely be valuable in any career but more so in the following career pathways: Arts and Communications; Health Sciences; Human Services.**

**1275 & 1280 Modern American History and Geography**

1.0 credit

Grade 9 (Required for graduation)

The year will be spent delving into people and events that shaped America and the European nations. The course will not necessarily be chronological, but include comparison units across time spans and continents starting with the turn of the century. The interwoven relations of these two areas and others will be discussed. Topics could include: Industrial Revolution, Immigration Waves and the Causes, Period of Imperialism, The 1930s - Depressions of Europe and the U.S., The Cold War and 1990 changes, Vietnam--Why and the ramifications, World Wars I and II, African Americans, Women, Hispanics, Native Americans and other cultural contributions to our history. The course emphasizes writing and evaluating events as historians. A project is required for each unit.

**1285 & 1290 Honors Modern American History and Geography**

1.0 credit

Grade 9 (Will meet the graduation requirement)

This is an intense study in American and European events based on the same format as Modern American History. It includes more independent reading and analysis of historical documents and topics. Each student will be required to do a major research paper each semester.

Prerequisite: "B" average in English and Social Studies.

**1255 & 1260 College Prep World History and Geography**  
Grade 10 (**Required for graduation**)

1.0 credit

This course will be spent studying the cultural, political, economic, and religious aspects of the nations of Latin America, the Far East countries of China, Korea and Japan, South Asia - including India, the nations of the Middle East, European nations, and the nations of Africa. There will be an overview of the problems facing, and the contributions made by, these countries to civilization (traditional and modern). An integral part of this course will include geography, situations, problems, and the future impact on students and the world. Research is required for in-class discussions of current events and issues from the various countries. Discussion of topical current events and use of current periodicals will increase multi-cultural awareness of the world. Students will discuss the theme of cultural diffusion throughout this course by looking at how ideas, people, religion, and resources spread to new regions.

**1265 & 1270 Honors World History and Geography**  
Grade 10 (**Will meet the graduation requirement**)

1.0 credit

This course will be spent studying the cultural, political, economic, and religious aspects of the nations of Latin America, the Far East countries of China, Korea and Japan, South Asia - including India, the nations of the Middle East, European nations, and the nations of Africa. There will be an overview of the problems facing, and the contributions made by these countries to civilization (traditional and modern). An integral part of this course will include geography, situations, problems, and the future impact on students and the world. Research is required for in-class discussions of current events and issues from the various countries. Discussion of topical current events and use of current periodicals will increase multi-cultural awareness of the world. Students will discuss the theme of cultural diffusion throughout this course by looking at how ideas, people, religion, and resources spread to new regions. **Honors students will be required to independently read the text and primary documents. Also, honors students will be assigned additional writing and research projects that may or may not be related to items discussed in class. Honors students will be tested on any assigned reading which may or may not be discussed in class.**

**1300 American Government (Civics)**  
Grade 11 (**Required for graduation**)

0.5 credit

This class focuses on the function and the structure of local, state, and federal political systems. The course will include a study of the three branches of government, the historical background to the Constitution, the wide variety of presidents and their administrations, Civil Rights, (including the struggle for black and women rights and their contribution to our society), in-depth study of the Articles and the Amendments, and citizenship within the political system. The rights and responsibilities of citizenship is an integral part of this course.

**1295 Economics - Theory and Applied**  
Grade 11 (**Required for graduation**)

0.5 credit

Economics is the study of the choices and decisions people make about how to use the world's resources. Understanding economics will help students make informed decisions for themselves and better assess decisions made by others. Examples of topics to be covered include economic theory, market structures and comparative economics systems. The role of the entrepreneur in our free market system and the influence of government policy on the system will be investigated. Life skills such as wise use of credit, using the banking system, taxes, the benefits of saving for retirement and the different types of investments available are presented by local business experts.

The student will use the Wall Street Journal to keep up to date with and analyze economic trends. They will also participate in a Stock Market simulation by maintaining their portfolio by deciding when to buy and sell shares in corporations listed on the NYSE and NASDAQ.

**1305 & 1310 AP U. S. History**  
Grades 11, 12

1.0 credit

This college level course is an intensive and rigorous study of American history from the European exploration era to the present. The class is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and material in US history. Emphasis is placed upon the political, economic, social and cultural influences that have shaped America. Discussions, writing skills, analytical reading, critical thinking, and historical interpretation are stressed. Students are strongly encouraged to take the AP exam in the spring. **Students admitted to this program should be willing to pursue reading and writing at a more intense level with a summer reading expectation.**

Prerequisite: "B" average in English and Social Studies and instructor's approval.

**1315 & 1320 AP U. S. Government**  
Grades 11, 12 (**Will meet the graduation requirement**)

1.0 credit

This course will include all the topics covered in American Government but in more detail and deeper understanding. It will also include a study of the different political ideology that shaped our government as well as other world governments. Current events and issues will be addressed with the use of a daily or weekly publication. Outside reading is required. Students are strongly encouraged to take the AP exam in May.

Prerequisite: "B" average in English and Social Studies and either Honors or AP American History and instructor's approval.

**1321 & 1322 AP Economics**

1.0 credit

Grades 11, 12 (Will meet the graduation requirement)

AP Economics is a college level, full year course designed to provide students with a thorough understanding of the principles of economics. AP Economics will emphasize the study of national income, economic performance measures, economic growth and international economics. The aim of AP Economics is to provide the student with a learning experience equivalent to that obtained in a typical college introduction level economics course. Students will learn to think like economists – to question, to evaluate marginal costs and marginal benefits, to explore the many ways that one action will cause secondary actions.

The course will be split into two areas of focus in order to best prepare students for the AP Micro and Macro exams in May. The syllabus and textbook provide students with a comprehensive breakdown of concepts and corresponding percentages of those concepts that they can expect to see on each individual AP exam.

**1330 Current Events & Issues**

0.5 credit

Grades 10, 11, 12

Using newspapers, weekly news magazines, news TV, and the Internet we will look at events that shape our world locally, nationally, and earthily. The student will work independently as well as in small groups to delve into the backgrounds of breaking and ongoing news stories. The student should have the skills to analyze and think critically. The ability to work independently is essential for success.

**1334 Sociology**

0.5 credit

Grades 10, 11, 12

In this course, students will have the opportunity to study the relationship between how society influences the individual and how, in turn, the individual influences society. This course will examine and discuss the patterns and processes within the following standards: Foundations of Sociology, Culture, Social Groups, Social Status, Social Institutions, Social Problems, Social Change and the Individual within the Greater Community will be studied.

**1335 Psychology I**

0.5 credit

Grades 10, 11, 12

An introductory course designed to survey topics such as physiological basis for behavior, structure and function of the brain, sensation, perception, memory, and consciousness. Other topics may include frustration and conflict, principles of learning, and personality development. A research paper is required.

**1336 Abnormal Psychology**  
Grades 11, 12

0.5 credit

A continuation of Psychology I, this course focuses on mental diseases, disorders, and abnormalities. Students will learn about the symptoms, possible causes, and treatments of anxiety and mood disorders, personality disorders, cognitive disorders, and age-related diseases of the brain. A thesis paper or service project is required.

**1342 Geography**  
Grades 10, 11, 12

0.5 credit

Geography is the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. It employs spatial concepts and landscape analysis to examine human socioeconomic organizations and the environmental consequences. The class will cover six general themes: Geography: It's Nature and Perspectives; Population and Migration; Cultural Patterns and Processes; Political Organization of Space; Land Use: Rural and Urban; Industrialization and Economic Development.

**1343 Historical Research and Analysis**  
Grades 11, 12

0.5 credit

This course will focus on how and why theories of historical events develop in cultures. This course will feature in-depth study of historical events and the interpretation of those events. This course will include intensive research, class discussion and a class project that will be developed in consultation with the instructor.

**1344 American Documents**  
Grades 10, 11, 12

0.5 credit

Using the approach of eras within American history, this elective semester course will examine and learn from the primary sources and authors that shaped our American values. What did they say within the context of their time? What stands out from their words and applies to all people in all times and places? What is the nature of our American values and thinking? What informs that? Authors would include but not be limited to: John Locke, George Washington, Thomas Jefferson, James Madison, the Federalist Papers, the Anti-Federalists, Abraham Lincoln, Frederick Douglass, William Lloyd Garrison, John C. Calhoun, Daniel Webster, Susan B. Anthony, Calvin Coolidge, Theodore Roosevelt, Booker T. Washington, W.E.B. DuBois, Jane Addams, Woodrow Wilson, Eleanor Roosevelt, Martin Luther King Jr., John F. Kennedy, Lyndon B. Johnson, Ralph Ellison, Malcolm X, Ronald Reagan, Barry Goldwater, Richard Nixon, Jimmy Carter, Barack Obama.

**FOREIGN LANGUAGE** (Two credits required for graduation. Three or four credits are **strongly suggested** for Honors students). The Michigan Department of Education requires two years of the same foreign language while many colleges would like you to have three or four years of the same foreign language for admission. Check with the university of your choice for their specific requirements.

Knowledge of a foreign language would be valuable in any career, since we live in a global society. Foreign language would be especially beneficial in the following career pathways: **Arts and Communications, Business, Engineering, Marketing, Management and Technology; Health Sciences; Human Services.**

**1385 & 1390 Spanish I** 1.0 credit  
Grades 9, 10, 11

Students will develop a basic foundation in Spanish grammar and basic vocabulary. They will be given the necessary skills to recognize and use this basic foundation in all aspects of language learning which include speaking, listening, reading and writing. Students will learn fundamental cultural information about all Spanish-speaking countries throughout the world via student research, movies, songs, food, etc. Course is taught in both Spanish and English.

Prerequisite: Recommendation of eighth grade language arts teacher or counselor.

**1395 & 1400 Spanish II** 1.0 credit  
Grades 9, 10, 11, 12

Students will expand on their basic foundation in Spanish grammar and conversation. The main objective is to increase students' comprehension of written and spoken Spanish in both the present and past tenses with a variety of thematic vocabulary units. They will concentrate on improving the speed and accuracy of their Spanish pronunciation. Culture study will continue to be an important part of the class. Course is taught in Spanish with some English.

Prerequisite: Strongly recommended "C" average or better Spanish I. Strongly recommended "B" average in middle school Spanish.

**1415 & 1420 Honors Spanish III** 1.0 credit  
Grades 10, 11, 12

In Spanish III, students put into practice the skills learned in Spanish I and II. A wide array of thematic vocabulary and grammar are taught throughout the year, including past, future, conditional, and imperative tenses. Students are encouraged to speak the language as much as possible using new idiomatic expressions. Formal speaking presentations and writing projects as well as reading and listening activities further improve their language skills. Culture is taught

through the use of books, films, guest speakers, and multimedia presentations by both teacher and students. Teacher and students will speak mostly in Spanish.

Prerequisite: “B” average in Spanish II.

**1425 & 1430 Honors Spanish IV**  
Grades 11, 12

1.0 credit

The purpose of this course is to increase the student’s ability to understand and to use previously learned Spanish in the four key language skill areas: listening, speaking, reading, and writing. Students will read and discuss literary works in Spanish and will create original compositions. Students will participate in various activities allowing them the opportunity to use the language in a variety of real-life situations. Students will learn the finer nuances of the language through advanced grammar (e.g. indicative vs. subjunctive tenses) and non-thematic vocabulary presentations and practices. This course will also strengthen the student’s awareness towards the significant contributions made by the Hispanic world via multimedia presentations, books, guest speakers, and field trips. Teacher and students will speak primarily in Spanish.

Prerequisite: “B” average in Spanish III and permission by instructor.

**1432 & 1433 Honors Spanish V**  
Grade 12

1.0 credit

The purpose of this course is to advance the student’s ability to use the Spanish language. This class will be centered on expanding students’ abilities in reading, writing, speaking and listening in Spanish through in-depth analysis of culturally relevant material. This material will include novels, short stories, news articles (both video and written), and the history of the culture of the Hispanic world. Students will learn to fine tune skills learned in Spanish I-IV through discussion and debate as well as essays, book reviews, and oral presentations. This course will strengthen the student’s awareness towards the significant contributions of the Hispanic world in our culture. Students will also experience firsthand the differences in culture through field trips and guest speakers. Teacher and students will speak primarily if not entirely in Spanish.

Prerequisite: “B” average in Spanish IV and permission by instructor.

## **FINE ARTS - SPOKEN (One credit of Fine Arts is required for graduation)**

**Knowledge of art, music, theater and communication is especially important to being a fulfilled human being. The following career pathways would expect particular knowledge of fine arts: Arts and Communications; Human Services.**

**1435 Speech** 0.5 credit  
Grades 10, 11, 12 **(Required for graduation) (Forensics may also be taken to fulfill the Speech requirement)**

This semester course is designed to introduce students to the procedure of preparing logically organized ways of speaking before groups with an audience centered approach. Formal research is required in the preparation and writing of some speeches. Three primary types of public speaking will be covered: Informative, Demonstrative, and Persuasive. The goal is to acquaint students with a variety of speaking techniques, tools, the use of contemporary technology, and strategies thus enabling students to be more confident in oral communication.

**1445 Forensics** 0.5 credit  
Grades 10, 11, 12 (2<sup>nd</sup> semester) **(may fulfill the Speech requirement)**

Forensics is a performance art class including 12 different speaking events. These can be categorized into two major speaking styles, Public Address (Broadcasting, Extemporaneous Speaking, Impromptu, Informative, Oratory, Sales) and Dramatic Interpretation (Dramatic Interpretation, Duo, Multiple, Poetry, Prose, Storytelling). Students will have the opportunity to construct and deliver a variety of these speeches.

## **FINE ARTS – VISUAL (One credit of Fine Arts is required for graduation)**

**Courses in the Visual Arts are intended for students who are interested in a career in commercial and applied art, fine arts, or art education.**

**1455 Art Fundamentals** 0.5 credit  
Grade 9

Art Fundamentals is a semester course designed to give beginning students an introductory experience with art. The elements of art and the principles of design are introduced. Students investigate traditional media through simple exercises, which will build upon one another. Emphasis will be on the development of perceptual skills by means of drawing from observation, and the use of a variety of drawing exercises. Group critiques will be used to increase artistic vocabulary. Career opportunities in the visual arts are explored as well as a survey of art from its earliest visual record to the present. Sketchbook work is also required and graded. This introductory course of art is a prerequisite for further study.

**1460 & 1465 Art I**

1.0 credit

Grades 10, 11, 12

Art I is an introductory, two semester course designed to serve as the foundation for all other visual arts studio courses. Students gain exposure to the visual arts through a variety of two- and three-dimensional media. Emphasis will be placed on the development of the student's abilities to draw from observation, and the elements and principles of design, as they are directly applicable to studio projects. Historical, as well as contemporary references will be presented. Proper use of equipment, materials and a variety of safety issues in the art room are covered. Additionally, students will participate in art shows and competitions, as well as group critiques to develop skill in talking about works of art. Sketchbook work is also required and graded. This introductory course of art is a prerequisite for Art II.

**1470 & 1475 Art II**

1.0 credit

Grades 10, 11, 12

Art II is an intermediate, two-semester course designed to build upon and increase the student's knowledge of the elements and principles of design, and familiarity with an increased variety of media and techniques. Students will have the opportunity to further develop their technical and perceptual drawing abilities. Historical and contemporary examples of art will be presented. Individual and group critiques are an important component of this course, along with continued sketchbook work. It is expected for students to participate in art competitions, art shows and school projects. This course is a prerequisite for Art Emphasis.

Prerequisite: Art I

**1490 & 1495 Art Emphasis**

1.0 credit

Grades 11, 12

Art Emphasis is an advanced, two-semester course designed for the serious student who demonstrates exceptional interest and ability in art. Students will have the opportunity to do advanced work in drawing, painting, and sculpture, graphic and applied arts. Course emphasis is on the development of a portfolio consisting of 12-20 works. Continued sketchbook work is required in order to further develop observational and technical drawing skills. Historical and contemporary examples of art will be presented. Individual and group critiques will be a major aspect of this class, along with the exploration of new art media, techniques, careers in art, and the proper presentation of completed work. It is expected for students to participate in art competitions, art shows, and school and community projects.

Prerequisite: Art II

**1496 Studio Options**  
Grades 11, 12

0.5 credit

This semester course is intended for anyone who wants to make artwork in a medium and style of their choice. Students will be given the opportunity to select their subject matter, medium, and style in the following areas: painting (acrylic, oil, tempera, watercolor), drawing (graphite pencil, charcoal, pen and ink, colored pencils, chalk pastels, oil pastels), sculpture (paper mache, plaster, clay, wire), and printmaking (screen printing, block printing). All students will be expected to complete a minimum of one studio project per quarter. A sketchbook is required and will be graded.

Prerequisite: Art I

**1515 Film Study**  
Grades 10, 11, 12

0.5 credit

Film Study is a semester course designed as an introduction to the historical development of film as an art form. The student views contemporary and classic American and European films in a variety of genres after which there are discussions and lectures. The intent of this course is to help the student become an active rather than a passive film viewer. To this end, the student will learn terms associated with film, jobs within the film industry, how stunts and special effects are done, and how a film is constructed. The culmination of the class is student demonstration of film knowledge through the making of their own short film. **Students will need access to a video camera to complete this project.**

**1517 Photography I**  
Grades 10, 11, 12

0.5 credit

A basic study of photography as an art form. The course includes the study of pinhole, traditional black and white and digital photography. The fundamentals of camera controls, composition and content, exposure control, lighting, color theory, processing film, making a print and displaying a print are emphasized. **Access to a 35mm manual operation or digital camera is required.**

**1519 Photography II**  
Grades 10, 11, 12

0.5 credit

Photography II is an advanced, semester course designed for the serious student who demonstrates exceptional interest and ability in photography. Students will have the opportunity to do advanced work in traditional black and white and digital photography. Learning to critique photography will be a major aspect of this class, along with the exploration of new techniques, careers in photography, and the proper presentation of completed work. Course emphasis is on

the development of a portfolio consisting of 6-12 prints. **Access to a 35mm manual operation or digital camera is required.**

Prerequisite: Photography I

**FINE ARTS – MUSIC (One credit of Fine Arts is required for graduation)**

Students who participate in three years of Band may waive the Physical Education and Speech requirements for graduation if their schedule does not allow for academic reasons as well as meet the Fine Arts requirement.

**1520 & 1525 Band** 1.0 credit  
Grades 9, 10, 11, 12

The Concert Band is primarily a performance-oriented organization. Students will work to achieve the highest level of individual and ensemble skills. Many extra opportunities are available, including: MSBOA festivals, workshops, clinics, special trips and performances. Historical and musical analysis is also included. Concert band members are also required to participate in marching band and basketball pep band.

**1530 & 1535 Honors Band** 1.0 credit  
Grades 11, 12

Upon completion of two years in concert band a student may enroll in the honors program. In addition to regular concert band activities, these third and fourth year members will be required to do some advanced study as determined by the director to receive the honors credit.

The Concert Band is primarily a performance-oriented organization. Students will work to achieve the highest level of individual and ensemble skills. Many extra opportunities are available, including: MSBOA festivals, workshops, clinics, special trips and performances.

Historical and musical analysis is also included. Concert band members are also required to participate in marching band and basketball pep band.

**Honors credit will require additional activities.**

**1540 & 1545 Percussion Ensemble** 1.0 credit  
Grades 10, 11, 12

Students will develop fundamental percussion skills and apply them to various types of group settings including drum line, chamber, jazz and ethnic percussion ensembles. Students will participate in all concert, marching and pep band performances. Historical and musical analysis is also included.

**1546 & 1547 Honors Percussion Ensemble**  
Grades 11, 12

1.0 credit

Upon completion of two years in percussion ensemble a student may enroll in the honors program. Students will develop fundamental percussion skills and apply them to various types of group settings including drum line, chamber, jazz and ethnic percussion ensembles. Students will participate in all concert, marching and pep band performances. Historical and musical analysis is also included.

**1548 Music Composition**  
Grades 10, 11, 12

0.5 credit

Through a progressive series of projects, students learn fundamentals of composing music to be performed by instruments and/or voice. Students will use various technology related to music including the notation software Sibelius. The final projects will be presented in a recital at the end of the semester.

Prerequisite: A basic understanding of music theory is required to take this course.

**1550 & 1555 Choir I**  
Grades 9, 10, 11, 12

1.0 credit

A basic choral music experience for interested and motivated students who would like to learn how to sing in parts. Students will sing unison, two, three and 4-part mixed arrangements increasing in complexity as the year progresses. Vocal concepts are introduced and developed; including breath control, resonance, phrasing, tonality and color. Students will learn beginning notation and sight-singing skills, including solfege. Ensemble singing during school liturgies and concert performances are part of this class experience as well as various outside performances during the school year.

**FINE ARTS – THEATRE (One credit of Fine Arts is required for graduation)**

**1590 Drama I**  
Grades 10, 11, 12

0.5 credit

This course covers an overview of theatrical performance and production. Students study acting, technical design, make-up and the management elements of plays. Performances aspects will include scenes from a variety of play genres.

**1591 Drama II**  
Grades 10, 11, 12

0.5 credit

This course is designed for the student who has a focused interest in a dramatic production experience. Students receive hands-on experience in play production by designing, performing

and directing excerpts of plays, short vignettes and children's theatre productions. Advanced techniques in storytelling, acting, and technical theatre are studied.

## **BUSINESS SERVICES/TECHNOLOGY**

**1635 Computer Science** 0.5 credit  
Grades 11, 12

This is a one semester, entry level course for students who are interested and want to explore the programming field. No prior programming experience is necessary, although students with experience are also welcome. In this course students learn to develop programs in a logical manner using structured programming methods. A problem solving approach is emphasized including a final team project. Topics include decision making loops, arrays, graphics, strings, designing forms, sub-programs, debugging programs, and other special topics. **This is an elective course and is not intended to replace the regular sequence students should follow in mathematics.**

Prerequisite: Successful completion of Geometry. Sophomores interested in taking this course must have teacher recommendation.

**1636 Marketing I** 0.5 credit  
Grades 10, 11, 12

Marketing is a hands-on, project based course in which students will learn about how the value of a product or service is communicated to a target audience. Students will learn the fundamentals of marketing as well as examine current marketing campaigns, strategies, and how the use of social media has changed the way we view the promotion. Within the constructs of the class, students will put into practice marketing strategy in promoting events for NCC, as well as creating a product for and public relations campaign to target their chosen audience.

**1637 Public Relations** 0.5 credit  
Grades 11, 12

Students will learn the basics of public relations and marketing strategies. Over the course of the semester, students will examine current public relations campaigns, celebrities and how the use of social media has changed the way we view the promotion of a persona and brand. This is also a hands on course where students will take what they learn and use those skills to create publicity components for Nouvel Catholic Central, as well as formulate a strategic plan.

**1638 Advanced Public Relations & Marketing Leadership** 0.5 credit  
Grades 11, 12

This course is designed to advance student experience in public communication and event planning, especially in the context of public relations and marketing. Students will apply the

principles of relational communication and leadership as well as developing individual and group leadership skills to impact their lives and community. Content areas include strategic planning, decision-making, goal setting, effective communication, leadership, organization event planning, time management skills, and concrete strategies to implement change. Class projects will include both Nouvel based and community based events.

Prerequisite: One semester of Public Relations or Marketing, and/or teacher approval.

**1639 Business In the World Today** 0.5 credit  
Grades 10, 11, 12

This business course is designed to help increase knowledge about the American business system and improve citizenship through a study of the business and economic environment that we live in today. Students will be introduced to the world of business that helps prepare them for their economic roles as consumer, worker and citizen. Topics include basic business principles, marketing concepts, entrepreneurship and the current environment that businesses will be interacting with in the global community.

### **PHYSICAL EDUCATION (One credit required for graduation)**

**Physical fitness is as important as mental fitness in today's world where many of us live unhealthy life styles.**

**1640 Health** 0.5 credit  
Grades 10, 11, 12 **(Required for graduation)**

A course designed to provide students with the proper attitudes, wholesome value, and ability to use knowledge in making wise decisions regarding matters of their health. Students will examine a variety of health issues including nutrition and physical fitness. Drugs, alcohol and tobacco will be explored and students are given the opportunity to practice the proper refusal skills necessary to deal with peer pressure outside of an academic environment. Communicable and non-communicable diseases will be discussed. As of March 2017 the State of Michigan mandates that all high school students have knowledge of chest compression only CPR and basic first aid as a requirement for graduation.

**1645 Nutrition** 0.5 credit  
Grades 11, 12

Students will get a broader perspective on the importance of proper nutrition when taking care of their body. Understand how to shop and look for the right fruits and vegetables, how to read the labels and make healthy food choices. The students will learn about other cultural foods and customs. The students will learn about proper care and protection when preparing foods. The students will discover how to manage their diet, create healthy meals, and learn about each food group in detail. Sports and nutrition play a key role in maintaining a healthy diet so the students

will learn what not to eat or what is best for them to help fuel up the sports. The students will be engaged in outside activities like going shopping, preparing a meal and dessert, using a chart to explain the importance of a particular food groups and other activities. The main purpose for the class is to spark interest for students interested in thinking about being a nutritionist or dietitian for a possible career.

**1650 Co-ed Fitness and Conditioning**  
Grades 10, 11, 12

0.5 credit /semester

Emphasis will be placed on weight training and conditioning as tools for lifelong fitness. Proper technique and a sequence of conditioning exercises (flexibility, running, weight training and agility drills) will be used. Training will consist of the practice of certain movements by constant repetition to improve one's physical condition, as well as awareness of substance abuse and alcohol relative to how it affects the mind and body. Only those students seriously interested in training for strength and aerobic fitness on a daily basis should enroll in this course.

**1651 Weight Training**  
Grades 11, 12

0.5 credit

This course is designed for those students who are seriously interested in working on their body and muscle strength. Students will do various all body workouts, both dealing with muscular strength and endurance. Students will also understand and know the dangers of performance enhancing steroids and other muscle building products that can harm the body.

**1655 Physical Fitness Humanities – Girls**

0.5 credit

**1660 Physical Fitness Humanities – Boys**

0.5 credit

Emphasis involves circuit training, weight lifting, meditation and game play to improve each freshman student's physical as well as emotional health. Students must dress and participate every day to receive credit for that day. Game play increases the student's team work ability and lets those who are leaders show these attributes in a game based environment.

**ELECTIVES (The number required for graduation depend on other courses chosen over four years)**

**1670 & 1675 Newspaper Production**  
Grades 10, 11, 12

1.0 credit

An intensive writing and design course where students will learn and put into practice the skills necessary for producing the student newspaper. Students will learn the basics of journalistic writing (News, Feature, Sports and Opinion) as they cover school and community events. They will also learn and implement the basics of photojournalism, graphic design, lay-out, web design and video production. The Newspaper class publishes two print issues a year, produces the

weekly video announcements and maintains the online aspects of the newspaper: [nccpantherprint.com](http://nccpantherprint.com) and the Panther Print Twitter, Facebook and Instagram accounts.

Prerequisite: Written approval of newspaper advisor.

**1680 & 1685 Yearbook** 1.0 credit  
Grades 10, 11, 12

This course is designed for students interested in marketing, graphic design, feature writing, photo-journalism, advertising, or management. Students will learn everything necessary to create, promote, and publish a high school yearbook. Focus will be on the following areas: layout and design, thematic organization, writing and interviewing, photocomposition, and working as a team. Editorial positions will be filled in June; interested students will fill out an application, submit letters of recommendation, and have a minimum of one personal interview. Open to all students, regardless of prior experience.

Prerequisite: Written approval of yearbook advisor.

**1686 On My Own** 0.5 credit  
Grades 11, 12

On My Own is a life skills course where students will focus on skills in the following areas: college life, employment and workplace, personal health and safety, relationships, budgeting and overall health and wellness. From knowing how to sew a button to job interview skills, students will learn the basics of caring for themselves in the real world, as well as gaining confidence in their own abilities.

**1688 & 1689 Introduction to Engineering** 0.5 credit  
Grades 11, 12

This course is designed to give students an understanding of the many fields that make up engineering and an introduction into the opportunities that engineering offers. Students will begin by investigating the question “What is engineering?” Each student will then pursue projects in the engineering field or fields that are of most interest to that student. Projects throughout the course will require students to incorporate math, science, English, and communications skills to research, design, present and report on the engineering fields they investigate. Students entering this course need to be motivated and interested in the field of engineering and be prepared for the multi-disciplinary nature of the course.

Prerequisite: Students who are enrolled in Algebra II **may** take this course concurrently. “B” average in any math course Algebra II or higher as well as successful completion of at least 2 years of science. It is highly recommended that students have taken or are currently enrolled in any level of physics, chemistry, and a biological science.

**OFF CAMPUS STUDIES (These electives need an application completed by student, parent, faculty and counselor in order to be valid)**

**1740 & 1745 Work Study Co-op**  
Grade 12

1.0 credit per semester

Students will have the opportunity to leave Nouvel during 7<sup>th</sup> and/or 8<sup>th</sup> hours to gain hands-on experience in a work environment. Work Co-op positions are designed for students to gain work experience in a field they are considering as a career. Work Study Co-op must be coordinated through the Guidance Office. The employer and Director of Guidance will be responsible for evaluating the student's performance at the end of each semester and issuing a letter grade.

**Application packet is required for admission to this program. Weekly reports are due each Monday and are a major portion of the final grade and credit.**

**1750 & 1755 Saginaw Career Complex (Career Training Program)** 1.5 credit per semester  
Grades 11, 12

Students attend the Saginaw Career Complex for specific Vocational training three (3) hours per day, Monday-Friday. Students are encouraged to register for Session I (a.m. session) at the Career Complex and to take four (4) academic core classes at Nouvel. Students receive school credit and an academic grade.

Programs being offered include: Graphic Arts; Business Management and Administration; Computer Technology and Networking; Culinary and Hospitality Management ProStart; Game, Database and Web Design; Animal Science; Agriscience and Technologies; Careers in Education; Cosmetology; Law, Public Safety and Security; Medical Careers; Advanced Medical Careers; Nursing Occupations; Advanced Nursing Occupations; Automotive Collision Repair and Refinishing; Building Construction; Computerized Machining; Welding Technology; Engineering/Project Lead The Way.

**Final offerings will be based on enrollment. You will need to make your decisions as soon as possible in order to save a seat in the program of your choice.**

**Students planning on going to the Career Complex for two years may need to take summer school classes to make up course requirements for Nouvel.**

If you are interested in a course that is not listed in this course guide please let us know about it. Almost any class can be taken virtually if it meets some basic requirements.