

School District of Green Lake

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AN ENVIRONMENT OF EXCELLENCE

February, 2011

Dear Students,

At Green Lake High School we have worked to create courses that prepare all students for life beyond high school. The courses you select will shape your high school experience and ultimately give you the education necessary for your post-high school career of choice. No matter what path you take, you will need to continue your learning beyond high school.

Students who plan to continue academically at a two or four year college can take classes during high school that will provide them with college credits. International Baccalaureate (IB), Advanced Placement (AP), Moraine Park Technical College transcribed courses, and other Youth Options opportunities are available for juniors and seniors. Please take advantage of this opportunity.

Take time to review all the information and plan the four-year program that will best prepare you for your future. Plan to take a rigorous course of study throughout your eight semesters at GLHS. Your teachers, Mrs. Hauer and I will be pleased to meet with you to assist in your planning.

We wish you much success at GLHS.

Mary Allen
Principal

<p>The School District of Green Lake does not discriminate against pupils on the basis of sex, race, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability or handicap in its education programs or activities. Federal law prohibits discrimination in employment on the basis of age, race, color, national origin, sex, religion, or</p>

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GUIDELINES FOR REGISTRATION

I. GUIDELINES TO REGISTRATION

1. A school day consists of eight periods.
2. A student must take a minimum of seven courses each semester.
3. Each year there are required courses which must be taken.
4. An elective is a course that a student may choose to take because it is needed or wanted.
5. A one semester course earns 1/2 credit; a full year course earns 1 credit.
6. Students are allowed to add or drop classes during the first five days of each semester without penalty. After this date a course add or drop must be approved by the principal and a failing grade may be entered into the student's transcript.
7. The school board has set the minimum number of students in a course at six in order for a course to run. However, that number does not guarantee that the course will be taught. If during the enrollment process a course drops below six, the principal may close a section and the student will be contacted and offered an opportunity to take a different course which may include online, distance learning, or correspondence course. All courses offered are at the discretion of the principal.

II. REQUIRED COURSES AND SEQUENCE

Grade 9

English 9 (1)
United States History (1)
Math Elective (1)
Physical Science or Biology (1)
Physical Education 9 /Health 9 (1)
Foreign Language (1)

Grade 11

English Elective:
Intermediate Composition/ World Literature
OR IB English
Social Studies Elective :
World History/World Studies
OR IB History

Grade 10

English 10: Composition 1/American Literature (1)
World History (1/2)
American Government (1/2)
Foreign Language (1)

Grade 12

English Elective:
Advanced Composition/British Literature (1)
OR IB English
OR MPTC Oral Communication/Written Communication (1)
Social Studies Elective (1)

III. Graduation Requirements:

Green Lake High School requires twenty-six (26) credits for graduation. Students are also required to complete certification in CPR/First Aid in order to graduate.

Students must earn the following in order to receive a Green Lake High School diploma:

4 credits of English
4 credits of Social Studies
2 credits of Math
2 credits of Science

1 1/2 credits of Physical Education
1/2 credit of Health

IV. FOUR-YEAR PLAN

It is important that a student review his/her four-year plan during each year of high school. A student should plan to take courses that will lead the student to his/her education and career goals. The plan should provide a strong foundation for admission to a one, two, or four-year college program, or provide courses that will be helpful in obtaining an apprenticeship or a job following completion of high school.

The student planning to attend a **one or two year technical college program** to receive a certificate, diploma, associate degree, or a skilled trade apprenticeship should consider the area of interest when selecting courses. It is important that prerequisites for individual programs are met as each program will have individual criteria for admission. It is important to include challenging math and science coursework in addition to other electives relating to the program of interest.

A **general four year college plan** will require four credits of English, three credits of social studies, three credits of math, three credits of science, plus electives in other academic and fine arts areas to equal 14 - 17 academic credits. Students should choose electives according to program interests.

The **University of Wisconsin four year campuses** currently require four years of English, three years of social studies, three years of math (algebra 1, geometry, and one upper level math course), three years of science, and academic electives to total 17 credits. U.W. Madison currently requires two years of a foreign language taken during high school. Admission requirements consider 'rank in class' based on cumulative GPA (grade point average), ACT or SAT scores, and college preparatory courses taken. Students who do not meet requirements may be admitted to the two-year UW-College campuses, the closest of which is in Fond du Lac.

Selective colleges may require as many as four years of the five academic areas (English, math, science, social studies, and foreign language), college entrance test scores, application essays, interviews, references, and extracurricular activities.

Scholarship selection committees may consider courses taken, grade point average, rank-in-class, college entrance test scores, essays, interviews, references, extracurricular activities, community/volunteer activities, and personal interests.

Special Services

I. GIFTED/TALENTED PROGRAM

All students deserve the opportunity to develop their potential. It is the responsibility of the School District of Green Lake to identify students with strong intellectual, academic, leadership, creative, and/or artistic abilities and to provide appropriate programming for them. These programs facilitate development of a student's abilities, thus enabling the student to realize his/her potential.

Green Lake has chosen the Wisconsin Comprehensive Integrated Gifted Programming Model as its program. The G/T program follows an 'easy-in/easy-out' format, allowing a student to participate for his/ her entire school career. Parents interested in more information should contact the G/T coordinator. The majority of students will have their individual needs met within the classroom, or through special enrichment or acceleration programming beyond the regular classroom. Arrangements will be made for individual students who need acceleration or a differentiated education program.

II. CAREER EDUCATION/EDUCATION FOR EMPLOYMENT

Career education is an on-going part of the educational program. Since the major purpose of education is to produce responsible, productive citizens, career education activities are infused into all curriculum areas. Interest inventories, career research, job shadowing, career days, business and industry tours, college tours, and special speakers are also provided for all students. As the student advances in high school, career education becomes more personalized as the student makes plans for post-graduation. The Guidance Office provides print and internet resources for career/college exploration. Students and parents are encouraged to utilize the Guidance website, particularly the *WisCareers* website located under the Guidance tab at www.greenlakeschools.com.

III. TESTING AND EVALUATION SERVICES

Testing by a certified school psychologist to determine present academic functioning is available to all students. Referral to the school psychologist may be made in writing by a parent, faculty member, or an administrator. Students may be referred as a result of performance in class or on group administered standardized tests. The purpose of referral and evaluation is to determine strengths and weaknesses and to make recommendations regarding academic programming or support services. Evaluations may only take place with written permission from the parent or guardian. Assistance for a student with academic needs may include an individually prescribed program, tutoring, remedial coursework, or enrollment in an Exceptional Educational Needs (EEN) program.

IV. COUNSELING AND GUIDANCE

The counseling program is available to all students and parents. Its purpose is to help students maintain normal personal and social relationships, and to help students understand themselves and their emotions through confidential individual and small group counseling. Students, parents, teachers, and administrators may make referrals.

Individual student achievement is an important emphasis of the school counseling program. Students or parents concerned about improving academic achievement are encouraged to see the school counselor. Individual counseling regarding approaches to study, study skills, and referral to support programs may be considered.

The guidance program includes providing educational and vocational information to individual students. It provides educational opportunities to students and parents regarding personal, educational and vocational needs, and provides placement, referral, research, and follow-up activities. Students and parents are encouraged to utilize the Guidance Office tab on the school website (www.greenlakeschools.com).

V. GREEN LAKE PUBLIC SCHOOL FOUNDATION, INC.

The Green Lake Public Schools Foundation is a non-profit organization formed exclusively to facilitate the collection and disbursement of charitable donations to benefit the School District of Green Lake in the advancement of scientific, literary and educational purposes. The Foundation uses its resources to support facets of the educational program that would not normally be funded by the public funds of the District.

If a student has a financial need that he/she feels would restrict his or her participation in a class or an extra-curricular activity, the student may apply to the foundation for assistance. Application may be made through the School Counselor or District Administrator and will be considered on its individual merit. Confidentiality will be maintained.

VI. GED or HSED

Green Lake High School works with Moraine Park Technical College to provide the GED/HSED option to any student who is unlikely to graduate with his/her class. After a conference with the parent, the student, the counselor and the principal, a student may be enrolled in the GED/HSED program. If there is room in the program, the school district will provide transportation to the MPTC site in Berlin for a student under the age of 18. The School District of Green Lake encourages each student to complete his/her high school diploma via Green Lake High School rather than choosing the GED/HSED option.

Educational Opportunities

I. YOUTH OPTIONS PROGRAM: RIPON COLLEGE/MORAINÉ PARK TECHNICAL COLLEGE/MARIAN COLLEGE/UNIVERSITY OF WISCONSIN-OSHKOSH/UW COLLEGES ONLINE

The State of Wisconsin Youth Options program allows all public high school juniors and seniors who meet specific requirements to take post-secondary courses at a UW institution, a Wisconsin technical college, or one of the state's participating private colleges. Enrollment in the program is on a 'space available' basis.

The school district is required to pay for a Youth Options course if the student will receive high school credit and the course is not comparable to a course offered in the school district. The student will receive both high school and post-secondary credit for a successfully completed course.

In order to qualify for the program, a student must:

- Complete the 10th grade, be in good academic standing, and have no record of attendance or disciplinary problems.
- Pre-register for a Youth Options course during the annual registration process.
- Complete a Youth Options form and submit it to the school counselor by June 1st for first semester and October 1st for second semester courses.
- A student must purchase his/her own textbooks and will be reimbursed for the cost following successful completion of the class and resale of textbooks to the college.

If a student receives a failing grade or fails to complete a course for which the school board has made payment, the school board may request reimbursement from the student/family.

A student may take up to 18 credits during his/her high school years through the Youth Options program.

Transportation to and from the post-secondary school is the responsibility of the parent and the student. More information and the necessary forms may be obtained from the school counselor.

II. DISTANCE LEARNING

The Distance Learning Lab allows Green Lake High School to provide an extended curriculum by participating in a distance learning network throughout the State of Wisconsin. The program brings courses to our students that would not otherwise be available. Courses are listed within the department and are identified as 'DL'. Students interact with students and teachers from other high schools 'live' via television monitors, and receive and send course materials via fax. Students participating in distance learning courses must possess strong academic motivation, good classroom behavior, and the ability to work independently.

III. WISCONSIN VIRTUAL SCHOOL

Wisconsin Virtual School (WVS) is a service provider that partners with school districts throughout the state to offer online education to middle and high school students. The WVS courses meet Wisconsin state and national standards. A student who would benefit from expanded curricula may request to take additional coursework through the Wisconsin Virtual School. A student may not take a WVS course in order to avoid coursework offered in the Green Lake High School curricula.

A student who wishes to take a WVS course must be self-motivated, self-disciplined, be a good time-manager, must not give up easily when confronted with obstacles, and must be willing to work in a loosely structured environment. He/she must also have good basic computer skills.

A student who does not pass a WVS course may take another course, however it will be at the student's expense.

A student may take a WVS course during the summer at the student's/parent's expense.

IV. ADVANCED PLACEMENT

Advanced Placement courses are offered to students who wish to earn college credit through the College Board program. The curriculum and all tests are designed by College Board and are rigorous in nature. At the end of the course, the student must pass the AP exam given in May of each year in order to gain college credit. A student may take an Advanced Placement course and choose not to take the AP exam. In either case the student will earn a Green Lake High School credit.

Green Lake High School currently offers AP courses through the Distance Learning Lab and through the Wisconsin Virtual School program. Available courses are listed within the department and are identified by 'DL', or 'WVS'. Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, must meet prerequisite coursework, and must excel in the academic course area.

V. CORRESPONDENCE/ONLINE COURSES

In order to supplement a high school program, a student may take a correspondence/online course from the University of Wisconsin Extension or other accredited academic institution. The course may be taken if it is not offered at Green Lake High School and a student needs credit(s) toward graduation. The course must receive approval in writing in advance from the Principal if the course is to count toward graduation.

A student may complete a correspondence/online course on his/her own time, or may request a study hall to complete the course as a part of the daily schedule. If the course is to be completed in school, requests must be made to the school counselor in writing prior to or during the first five days of each semester.

Information regarding correspondence courses is available in the Guidance Office. (BOE Policy 7220)

VI. INDEPENDENT STUDY

The intent of an independent study course is to provide an opportunity for a student to pursue an area of special interest under the supervision of a teacher. A student desiring to do advanced coursework not available in the curriculum or an in-depth study of a particular subject may apply for independent study. A student may not elect to take a course on an independent basis in lieu of enrollment in the same regularly scheduled class. A student may not earn more than one credit through independent study in one school year. Arrangements for independent study are to be made at the time of student registration in the following manner:

1. A student proposal of an independent study course must be presented to and agreed upon by the appropriate supervising teacher. The independent study course must be scheduled during a class period that will allow the supervising teacher to supervise the student on a daily basis.
2. With the student, the supervising teacher will complete a 'Request for Independent Study' form outlining course content, materials, objectives, expectations, and method of evaluation. Request forms may be obtained in the Guidance Office.
3. All requests for independent study must be approved by the Principal prior to or during the first five days of classes each semester.

VII. SPECIAL COURSE ENROLLMENT

A 'special course enrollment' is one in which the student is taking a course available in the curriculum during a period other than when it appears on the master schedule due to a schedule conflict. The course teacher must be willing to accept the student for individual instruction, and must be available to teach the student during the designated period. A request form may be obtained from the Guidance Office and must be completed by the student and appropriate teacher and submitted to the Principal for approval prior to or during the first five days of each semester.

VIII. FOREIGN EXCHANGE

Green Lake High School participates with the Rotary International to provide an opportunity for high school juniors or seniors to spend a year abroad. The program is designed to promote international understanding and goodwill. Participating students live with several families during the school year and receive the equivalent of six general high school credits for a one-year experience.

An applicant must demonstrate above average academic achievement and must have an outgoing and pleasant personality to fit the role of ambassador. The student must be able to accept discipline, be capable of adjusting to new and strange conditions, and must be of good character and reputation.

An interested student must apply in September for participation in the program the following year. Applications are processed and interviews take place each fall. After candidates are selected by Rotary, the student participates in several weekend orientation retreats with other outbound students throughout the school year. The student receives his/her assigned country in the spring, and leaves for his/her country in late summer.

Host families are needed yearly for 'inbound' students from foreign countries. This is an excellent opportunity for families to acquaint themselves with other cultures. Contact Mr. Felix Schultz, 294-3798, for further information regarding both 'inbound' or 'outbound' foreign exchange, or see the School Counselor.

IX. SUMMER SCHOOL

Students who are credit deficient, need to complete course prerequisites, need to complete classes taken during the school year, and/or need academic tutoring may take courses during a six-week term in the summer via the Wisconsin Virtual School. Students who wish to complete enrichment courses via Wisconsin Virtual School may also enroll during the summer school program. Information is provided to targeted students in the spring regarding the dates and times of the program.

X. EARLY GRADUATION

A high school student interested in early graduation should begin planning as early as the freshman year. A student interested in this option must complete all graduation requirements. In order to do so a student will have to receive an accelerated program.

Any student considering early graduation must consider his/her reasons for wanting to do so. Examples of good reasons may include entering college early or attending a foreign exchange study program.

A conference with the School Counselor, parent, and student will determine desirability and options. If a student wishes to pursue early graduation, a written proposal outlining the plan, accompanied by a recommendation from the School Counselor, must be submitted to the Principal.

XI. CPR/BASIC LIFE SUPPORT/FIRST AID/AED TRAINING

CPR/Basic Life Support/First Aid/AED training is a Green Lake High School graduation requirement. All students receive instruction via an American Red Cross course. This 12-hour course teaches how to recognize warning signs of heart attack and stroke and what to do in case they occur. The student learns how to treat respiratory distress and choking (foreign body airway obstruction) through techniques such as the Heimlich maneuver. The student also receives instruction in the use of an AED. After lecture, demonstration, and practice, the student is evaluated through written and practical tests, and receives American Red Cross certification.

DIRECTIONS FOR COMPLETING HIGH SCHOOL COURSE REGISTRATION ONLINE

1. Review the ***Course Description Booklet*** to check course availability and prerequisites. Some courses have prerequisites (courses you must pass before you may take the course), some courses are restricted by grade level, and some courses are offered every other year. First, make sure you are eligible to take the courses you select, and second, make sure the courses are available in the year you wish to take them.

2. Complete or revise your ***Four Year Plan***, so that you know in what order you wish to take coursework, and that you will be able to fit courses into your plan. Make sure you are meeting your requirements for graduation, that you are taking coursework that fits your post high school plans, and that you are taking coursework that relates to your career interests.

3. Complete your course registration online via the ***Family Access Program***. Make sure you have a total of 7 credits. Add alternate courses in case you do not receive every course you request. Make sure to include any courses that you must repeat due to a failure.

4. If you are taking college level courses, complete a ***Youth Options Form*** and turn it in to the Guidance Office. College level courses may be taken via Distance Learning or on site at Ripon College. Seniors taking Ripon College, U.W. Oshkosh, Marian College, or Moraine Park Technical College courses may take fewer credits because of the increased workload of college level courses. Follow *The Rule of Six*, e.g. 5 courses at GLHS and 1 course at RC, UWO, or MPTC.

Complete your registration online via ***Family Access*** no later than **Sunday, March 20, 2011**.

COURSE OFFERINGS

Art Department

Art of Glass (1/2)
Ceramics (1/2)
Drawing (1/2)
Fibers (1/2)
Painting (1/2)
Studio Art (1/2)

IB Visual Art SL/HL (1)
MPTC Beginning Photoshop (1/2)
MPTC Principles of Graphic Design (1/2)
WVS Art Appreciation (1/2)
WVS AP Art History (1)

Business Department

Business Law (1/2)
Business Management (1/2)
Personal Finance

MPTC Accounting (1)
MPTC Business Marketing (1/2)
WVS AP Macroeconomics (1/2)
WVS AP Microeconomics (1/2)

Computer Science Department

Web Site Design (1/2)
Web Site Design/Multimedia Production (1/2)
IB Information Technology in a Global Society (1)
WVS Computer Fundamentals Microsoft Office (1/2)
WVS Digital Photography and Graphic Design (1/2)

WVS Digital Video Production (1/2)
WVS Game Design (WVS) (1/2)
WVS Programming: JAVA.NET (WVS) (1/2)
WVS Programming: VB.NET (WVS) (1/2)
WVS AP Computer Science A (WVS) (1)

English Department

English 9 (1)
English 10 (1)
English 11 (1) (Int. Composition/World Literature)
English 12 (1) (Adv. Composition/British Literature)
Corrective Reading (READ 180) (2)
Journalism (1)
IB Language 1A: World Literature SL/HL (1)

MPTC Oral/Interpersonal Communication (1/2)
MPTC Written Communication (1/2)
WVS Creative Writing (1)
WVS Grammar and Composition (1)
WVS AP English Language (1)
WVS AP English Literature & Composition (1)

Family and Consumer Education Department

MPTC Early Childhood Education (DL) (1/2)
MPTC Guiding Children's Behavior (DL) (1/2)

Foreign Language Department

French 1 (1)
French 2 (1)
French 3 (1)
French 4 (1)
French 5 (1)
Spanish 1 (1)
Spanish 2 (1)
Spanish 3 (1)
Spanish 4 (1)
Spanish 5 (1)
IB Language 2A: French SL/HL (1)
IB Language 2A: Spanish SL/HL (1)

WVS Chinese 1 (1)
WVS Chinese 2 (1)
WVS German 2 (1)
WVS German 1 (1)
WVS German 3 (1)
WVS German 4 (1)
WVS Japanese 1 (1)
WVS Japanese 2 (1)
WVS Latin 1 (1)
WVS Latin 2 (1)
WVS World Languages Survey (1/2)
WVS AP French Language (1)
WVS AP Spanish Language (1)

Mathematics Department

Algebra/Geometry 1A (1)
Algebra/Geometry 1B (1)
Algebra/Geometry 1 (1)
Algebra/Geometry/Statistics (1)
Algebra/Geometry/Pre-Calculus (1)
IB Math Studies SL (1)
IB Math SL (1)
MPTC Technical Math 1A (1/2)
MPTC Technical Math 1B (1/2)

WVS Calculus (1)
WVS Consumer Math (1)
WVS Integrated Math (1)
WVS AP Calculus AB (1)
WVS AP Calculus BC (1)
WVS AP Statistics (1)

Performing Arts Department

Band (1)
Concert Choir (1)

IB Music SL (1)
WVS Music Appreciation (1/2)

Physical Education Department

Physical Education 9/Health 9 (1)
Lifetime Activities 1 (1/2)
Lifetime Activities 2 (1/2)

Personal Fitness (1/2)
WVS Nutrition & Wellness (1/2)

Science Department

Physical Science (1)
Biology 1 (1)
Chemistry 1 (1)
Physics (1)
Biology 2 (1)
Chemistry 2 (1)
IB Biology SL/HL (1)
IB Environmental Systems & Society SL (1)

MPTC Careers in Allied Health (DL) (1/2)
MPTC Medical Terminology (DL) (1/2)
WVS Earth Science (1)
WVS AP Biology (1)
WVS AP Chemistry (1)
WVS AP Environmental Science (1)
WVS AP Physics B (1)

Social Studies Department

United States History (1)
American Government (1/2)
World History (1A/1B)
World Studies (1/2)
Cultural Anthropology (1/2)
Leadership Development (1/2)
IB History SL/HL (1)
IB Theory of Knowledge (1)
MPTC Psychology (1/2)
MPTC Sociology (1/2)

MPTC Introduction to Criminal Justice System (DL) (1/2)
WVS Economics (1/2)
WVS AP European History (1)
WVS AP Psychology (1/2)
WVS AP U.S. Government & Politics (1/2)
WVS AP U. S. History (1)
WVS AP World History (1)

Technology Education Department

Technology Survey (1)
Production Systems (1)
Research & Design Engineering (1)
Building Construction (1/2)

Electronics (1)
Energy and Transportation/High Mileage (1/2)
Engine Fundamentals & Recreational Powersports (1/2)

Course Descriptions

Art

ART OF GLASS

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

In this course students will study various projects and artwork that can be created with different types of glass. Projects will include making a glass mosaic on a glass panel or clear glass picture frame, learning the technique of glass fusing as a jewelry form, creating a stained glass panel, and experimenting with copper enameling. Students will take a field trip to a nearby glass-blowing studio.

CERAMICS

OPEN TO: Grades 9 - 12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course will focus on clay creations. The student will explore the history of clay through a variety of techniques. The art of wheel throwing, coil pottery, slab building, and free form clay will be explored.

DRAWING

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course will focus on technique and formal elements of drawing. Students will learn a variety of drawing methods including contour line, figure, grid-drawing, and 1-2-3 point perspective.

FIBERS

OPEN TO: Grades 9 - 12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course will focus on *fun with fibers*. The student will explore the history of fibers through a variety of techniques. Weaving, paper making, book making, basketry, and fabric art will be explored.

PAINTING

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: Two Dimensional Art 1/2 Credit

This course will give the student an opportunity to further develop individual style and improve overall technique in painting. The student will explore basic acrylic, watercolor, and oil painting materials, methods, and major artistic movements.

STUDIO ART

OPEN TO: Grades 10 - 12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course will focus on the design and implementation of individual projects based on individual student interest and preferred art form. Each student will contract with the teacher to design and carry out a high quality art project worthy of competition.

IB VISUAL ARTS SL, HL (IB DIPLOMA PROGRAM)

OPEN TO: Grades 11 & 12
PREREQUISITE: None
ELECTIVE
1 or 2 Credits

New ways of expressing ideas helps to make the visual arts one of the most interesting and challenging areas of learning and experience. The processes of designing and making art requires a high level of cognitive activity that is both intellectual and affective. Engagement in the arts promotes a sense of identity and makes a unique contribution to the lifelong learning of each student. The study of visual arts provides students with the opportunity to develop a critical and intensely personal view of themselves in relation to the world.

The Diploma Programme visual arts course enables students to engage in both practical exploration and artistic production, and in independent contextual, visual and critical investigation. The course is designed to enable students to study visual arts in higher education and also welcomes those students who seek life enrichment through the visual arts.

Because of the nature of the subject, quality work in the visual arts can be produced by students at both HL and SL. The aims and assessment objectives are the same at both HL and SL. Through a variety of teaching approaches, all students are encouraged to develop their creative and critical abilities and to enhance their knowledge, appreciation and enjoyment of visual arts. The course content for HL and SL may be the same. However, due to the different amount of time available for each, students at HL have the opportunity to develop ideas and skills, to produce a larger body of work and work of greater depth. In order to reflect this, the assessment criteria are differentiated according.

The aims of the visual arts course at HL and SL are to enable students to:

- investigate past, present and emerging forms of visual arts and produce, appreciate and evaluate them.
- develop an understanding of visual arts from a local, national and international perspective.
- build confidence in responding visually and creatively to personal and cultural experiences.
- develop skills in, and sensitivity to, the creation of works that reflect active and individual involvement.
- take responsibility for the direction of personal learning through the acquisition of effective working practices.

MPTC BEGINNING PHOTOSHOP

OPEN TO: Grades 11-12
PREREQUISITE: None
ELECTIVE
1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

Introduces basic electronic pixel-based image manipulation. The course uses software tutorial exercises that require Adobe Photoshop CS3 software. The course builds on the student's required skills of using a computer and its operating system to manage files and search the Internet.

MPTC PRINCIPLES OF GRAPHIC DESIGN

OPEN TO: Grades 11-12
PREREQUISITE: None
ELECTIVE
1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

Introduces students to the basic formal elements and principles of two-dimensional graphic design. Uses visual exercises and practical projects to explore visual and creative thinking strategies to develop more effective visual communication. Basic computer skills are recommended.

ART APPRECIATION (WVS)

OPEN TO: Grades 9-12
PREREQUISITE: None
ELECTIVE
1/2 Credit

This one semester course introduces the major themes, influences and personalities that shaped most of western cultural heritage through art. The periods studied include Ancient, Classical, Renaissance, Baroque, Modern and Contemporary. After completing the course, students will be able to analyze art with the eyes of an art historian; compare and contrast the sculpture of ancient peoples, considering its purpose, size and degree of realism; recognize and describe the major characteristics of the various 'isms' of Europe and America; identify examples of the outstanding art of Asia, India, Africa and pre-Columbian American and discuss their purposes; and describe how the study of art has influenced personal perceptions of the world and its art.

AP ART HISTORY (WVS)

OPEN TO: Grades 11 – 12

PREREQUISITE: None

ELECTIVE

1 Credit

This course is designed to foster in students an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. In addition to visual analysis, this course emphasizes understanding works in context, considering such issues as patronage, gender and the functions and effects of works of art. Prior art training is not a prerequisite nor does the course cater exclusively to future Art History majors. This course was designed to meet the requirements of the Advanced Placement Art History requirements precisely.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Business

BUSINESS LAW

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course is designed to give the student a general background in learning how the law affects individuals in daily life. Special emphasis is placed on the Law of Contracts and personal law. Other topics addressed include where laws originate, torts, and crimes, hotels/motels, the court system and consumer law. Also explored is how the law affects minors and how it changes to affect adults. A variety of speakers, as well as current events, will be used to help understand how law is involved in everyday life.

BUSINESS MANAGEMENT

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

Business Management is an excellent class for the student wishing to pursue a business career. This course focuses on entrepreneurship and management of a business. The student will learn about human resource management, employee/employer relations, leadership, supervision, planning, organizing, and controlling a business, as well as dressing for success. In addition, the course will deal with the ever-changing world of international business. Students will explore business practices in other countries and learn about how different cultures and traditions influence the scope of business around the world. An entrepreneurial aspect of this course is the starting of a business that will be run by the class members. Each class will decide which type of business to pursue, provide the research behind their reasoning, and report on the profit/loss of the business. Students will also engage in a stock competition with many schools throughout the state. Each team will receive \$100,000 of startup funding (hypothetically) and will invest in a number of investment opportunities while learning how the investment world functions.

PERSONAL FINANCE

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course develops an understanding of the principles of money management, financial security, credit management, employment wages/salaries, insurance, consumer purchases, and budgeting. The course will educate students about the importance of economic resources and how to achieve personal lifestyle and financial goals. Readings, research, financial news article reviews, class speakers, and projects will lead each student along the financial road of life

MPTC ACCOUNTING

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1 Credit and
Moraine Park Technical College Credit (3 Cr)

Accounting is an introduction to recordkeeping and accounting requirements for a small business. Basic records necessary for the preparation of the earnings statement and balance sheet are discussed. Complete accounting cycle is covered ranging from original business transaction to preparation of financial statements and closing of the books at year-end.

MPTC BUSINESS MARKETING

OPEN TO: Grades 11-12
PREREQUISITE: None

ELECTIVE
1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

This course introduces students to the dynamic world of marketing goods and services, and how marketing can help develop skills that will enable them to be competitive and succeed in the future. Students will have the opportunity to learn how products and services are developed, promoted through advertising, and distributed to the final customer. Students also have the opportunity to explore planning and goal setting techniques for self-improvement, human relations, marketing careers, and learn how to successfully seek and keep employment.

This class will also involve opening and operating a school retail facility. Financial records will be kept and monthly reports will be submitted.

AP MACROECONOMICS (WVS)

OPEN TO: Grade 11-12
PREREQUISITE: None

ELECTIVE
1/2 Credit

Macroeconomics is an emphasis on how the economic system works as a whole. Students study how the economy is measured by using concepts such as gross domestic product (GDP) and other indicators. They examine concepts such as inflation, unemployment, world trade patterns, and the role of the Federal Reserve Bank. Students engage in decision-making processes to create an environment where high employment and a higher standard of living are achievable by using the economic tools of fiscal and monetary policy. This course prepares students for the AP Exam in Macroeconomics. Textbook and workbook required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP MICROECONOMICS (WVS)

OPEN TO: Grade 11-12
PREREQUISITE: None

ELECTIVE
1/2 Credit

Microeconomics emphasizes how individuals make choices with limited resources. Students will examine concepts such as supply and demand, factors of production, roles of labor and management, the relationship between the environment and the economy, and the impact of the government on individual decision making processes. Students study the stock market as an investment option and trace various stocks through the semester using the Wall Street Journal and the Internet as resources. This course prepares students for the AP Exam in Microeconomics. Textbook and student workbook required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Computer Science

WEB SITE DESIGN

Offered 1st Semester

OPEN TO:

Grades 9-12

ELECTIVE

PREREQUISITE:

None

1/2 Credit

This course will focus on the design and maintenance of a web site. Use of HTML, FrontPage, digital camera, scanner, and Adobe software will be taught and used to create web pages, graphics, and hyperlinks for educational, personal, and commercial use.

WEB SITE DESIGN/MULTIMEDIA PRODUCTION

Offered 2nd Semester

OPEN TO:

Grades 9-12

ELECTIVE

PREREQUISITE:

Web Site Design

1/2 Credit

Web Authoring and multimedia production is for students who are interested in learning how to plan, design, and create web pages and multimedia productions. Topics include web authoring tools, graphic design, and graphic design tools and planning.

IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY (ITGS) SL (IB DIPLOMA PROGRAM)

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

None

1 Credit

ITGS is the study and evaluation of the impact of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts.

Although ITGS shares methods of critical investigation and analysis with other social sciences, it also considers ethical questions found in the study of philosophy. Students come into contact with IT on a daily basis because it is so pervasive in the world in which we live. This widespread use of IT inevitably raises important questions about social and ethical issues that shape our society today. ITGS offers an opportunity for a systematic study of these issues, whose range is such that they fall outside the scope of any other single discipline.

The nature of the subject is defined by the following fundamental ITGS terms:

- *Information Technology* is the acquisition, processing, storage, manipulation and dissemination of digital information by computing or telecommunications or a combination of both
- *Social impact* includes the economic, political, cultural, legal, environmental, ergonomic, health and psychological effects of IT on human life.
- *Ethical considerations* refer to the responsibility and accountability of those involved in the design, implementation and use of IT.
- *An information system* is a collection of people, information technologies, data, methods and policies organized to accomplish specific functions and solve specific problems.

COMPUTER FUNDAMENTALS: MICROSOFT OFFICE (WVS)

OPEN TO:

Grades 9 - 12

Elective

PREREQUISITE:

None

1 Credit

In this introductory course, students will become familiar with the basic principles of a personal computer including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as Microsoft Word, Excel, and PowerPoint as well as understand social and ethical issues around the Internet, information and security. This is a two semester course. In the first semester, the focus is on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware and operating system. In the second semester, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

DIGITAL PHOTOGRAPHY AND GRAPHIC DESIGN (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

In the digital photography and graphic design lessons, students begin by learning general photographic concepts. Then composition skills are added to photographs and image-editing techniques are practiced. Students learn how to use layers, crop images, color and lighting concepts, hue and saturation, and exposures and special effects. Graphic design, artistic elements, and software skills are taught while producing graphic images. The concept of design as a manner of visual communication is carried throughout. Students build a portfolio of work and explore the fields of photography, graphic arts, advertising and illustration.

DIGITAL VIDEO PRODUCTION (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

This course introduces students to all aspects of digital video, from story-boarding scenes and creating shot lists to editing a finished, professional-quality product. Throughout this project-based course, students will demonstrate mastery of the key learning objectives by recording, capturing and editing their own videos. This is a hands-on course that provides a solid foundation for further study in this exciting field. Required tool: Microsoft Windows Movie Maker; Any video camcorder capable of connecting to a computer (either through USB or Firewire).

GAME DESIGN (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

This course will introduce students to the basic skills necessary for game design. They will study the various games in the industry and analyze their approach in terms design and development. The student will explore the processes and art of making game elements like story, levels, sound, user interfaces, and levels. This analysis will include an orientation to the gaming market and innovative techniques' impact on it. Finally, the student will merge all these elements into a functional prototype showing their understanding of the game design process.

PROGRAMMING: JAVA.NET (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: Computer Programming 1 1/2 Credit
Basic Computer Fundamentals

This introductory-level course presents the understanding of JAVA and how to build a stand-alone application (such as a countdown clock or leap year indicator). This course is designed for first-time learners who have very little programming background except that introduced in Programming I: VB.NET. The student will also learn the techniques of JAVA, how JAVA can be used in cross-platform programming, and the robustness of the Java program. At the end of the course student will be able to write basic programs using Java and could pursue further instruction any programming language. Required tool: JDK 1.5 (or higher version)

PROGRAMMING: VB.NET (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

This course presents basic programming and teaches the essential concepts of VisualBasic.net (VB.NET). As an introduction to VB.NET, students will see the basic uses of the programming language, its similarities to the English language (and others), and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This is an introductory course that could lead to careers such as software engineer, developer, or game designer. The course participants will also complete a series of hands-on projects covering built in data types, operators, control structures, classes, and objects.

AP COMPUTER SCIENCE A

(WVS)

OPEN TO:

Grade 11-12

PREREQUISITE:

None

ELECTIVE

1 Credit

This advanced course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first semester college-level course in Computer Science. It also includes the study of data structures, design, and abstraction, but these topics are not covered to the extent that they are in Computer Science AB.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

English

ENGLISH 9

OPEN TO:	Grade 9	REQUIRED
PREREQUISITE:	None	1 Credit

The primary areas of study in 9th Grade English are writing, vocabulary, reading comprehension, and language usage. Reading comprehension is developed through the reading and structural analysis of the short story, poetry, drama, biography/autobiography, essay, editorial and news article. Examples of novels that may be read in this course include Great Expectations, Romeo and Juliet, and The Odyssey.

The student is taught to write effective sentences through a study of empty sentences, padded sentences, overloaded sentences, faulty comparison, and a variety of sentence beginnings, types and lengths. He/she writes descriptive, narrative and expository essays, and a research paper using outlines and revision techniques. Emphasis is placed on use of a thesis statement supported by details, reasons or facts. In addition, the student writes poems, short stories, news articles and editorials.

In language usage, the verb is stressed (parts, tenses, active and passive voices, participles, gerunds, and infinitives). Subject/verb agreement is also studied. Punctuation and capitalization are reviewed.

ENGLISH 10

OPEN TO:	Grade 10	REQUIRED
PREREQUISITE:	English 9	1 Credit

Tenth grade English is an American literature course that exposes students to the writings and ideas of American authors. The legacy of America is a legacy of traditions – trends, themes and issues that have occurred throughout our history. The literature of America reflects these traditions and culture, serving as a record of the conflicts, failures, and triumphs of a country and its people. Questions will be considered, such as: *How can literature teach about the traditions, and issues of American culture? How can a piece of literature from generations ago still capture imaginations, minds, and emotions? How relevance found in literature from earlier times?* By being exposed to a variety of literary concepts, genres and authors, students will gain insight to varying and sometimes conflicting perspectives. Students will have the opportunity to work effectively in groups to share interpretations, reach conclusions, brainstorm ideas, read orally and plan presentations. They will independently analyze, discuss, and write about literature and then practice professional public speaking skills while presenting information. Along with learning the basic principles of language arts and mastering required state standards, students will develop a better understanding of their lives and the world around them.

ENGLISH 11: INTERMEDIATE COMPOSITION/WORLD LITERATURE

OPEN TO:	Grade 11	ELECTIVE
PREREQUISITE:	English 10	1 Credit

The 1st semester will focus on the utilization of writing skills learned in Composition I. Several forms of writing will be addressed including subject writing, poetry, prose, dialog, and literary analysis. The student will practice the steps in the writing process, organizing, writing, editing, and revising a paper. In addition, the student will write a formal research paper. The student will increase vocabulary in preparation for college entrance examinations. The student will also improve personal writing style through introduction to narration, description, definition, and comparison/contrast. Grammar elements will be reviewed as necessary.

The 2ND semester exposes the student to major literary works that represent other cultures and other time periods. Authors from countries other than the United States are studied including Greek mythology, plays of Sophocles, *Julius Caesar*, *Cyrano De Bergerac*, and poetry from around the world. The course attempts to broaden the student's concept of the world as well as to identify themes common to humanity regardless of place and time. The student is required to read short stories, plays, and poetry, to write in response to the readings, and to participate during class in discussions and activities based upon the reading. Throughout the course the student will increase vocabulary and develop skills in the analysis of literature.

ENGLISH 12: ADVANCED COMPOSITION/BRITISH LITERATURE

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: English 11 1 Credit

First semester will focus on Advanced Composition. The college-bound student will refine writing skills to master the following forms of composition: narration, description, definition, comparison/contrast, analysis, and argument. APA/MLA style is required for each paper, with emphasis on revision and adherence to proper form. Included in the class will be vocabulary enrichment, journal writing, portfolio development, and the creation of a class publication. A current college-level handbook and a "reader" are the sources used in the course.

The 2nd semester of this course focuses on the evolution of British Literature from 450 A.D. through the twentieth century. In depth examinations of various poetry and prose selections from the time frame above will allow the student to trace the ever-changing English language. Required readings include Beowulf from the Anglo-Saxon period, The Canterbury Tales (Chaucer) from the medieval period, Macbeth (Shakespeare) from the Renaissance period, and Gulliver's Travels (Swift) from the Age of Reason, as well as others. The student will practice essay construction through literature-based writing. The student will also prepare and present literature research projects throughout the semester.

CORRECTIVE READING (READ 180)

OPEN TO: Grade 9 - 12 ELECTIVE
PREREQUISITE: None 2 Credits (2 Period Block)

This course utilizes the READ 180 program. It is an intensive reading intervention program that helps confronts reading problems on multiple fronts using various technologies. READ 180 is proven to meet the needs of struggling readers whose reading achievement is below proficient level. The program directly addresses individual needs through differentiated instruction, adaptive and instructional software, high-interest literature, and direct instruction in reading, writing, and vocabulary skills. READ 180 is taught in a two-hour block.

JOURNALISM

OPEN TO: Grades 10-12 ELECTIVE (This course may be repeated.)
PREREQUISITE: None 1 Credit

This course emphasizes basic news writing, layout, design, copy, proofreading, advertising business management, photography, and graphics as they relate to the Green Lake High School Newspaper and *Lac Verd* yearbook. In addition, students are encouraged to send articles to area newspapers. All work is produced on a desktop publishing unit. Non-print and other forms of mass media will be included.

IB ENGLISH SL, HL (IB DIPLOMA PROGRAM)

OPEN TO: Grades 11 & 12
PREREQUISITE: English 9, English 10
ELECTIVE
1 or 2 Credits

English SL or HL is designed for students with a high level of competence and can be studied at either higher level or standard level. The course provides students with the opportunity to study language, texts and culture, and to develop their analytical skills.

Students become familiar with a wide range of vocabulary and complex grammatical structures. At the end of the course they are expected to understand and use the language accurately. Language development and refinement include the analysis and use of language appropriate in particular contexts.

Students are exposed to a wide range of texts that they encounter in their everyday lives (for example, short stories, speeches, cartoons, advertisements and news reports). They learn how to compare and contrast how the language is used in different texts, and how language and style affect the presentation of theme and topic. Once they have become familiar with the style used in different types of texts, students are required to write tasks that relate to the course content in an appropriate register and style.

Within the framework of the cultural options (language and culture, media and culture, future issues, global issues and social issues), students study particular topics such as bilingualism, advertisements and racism. The purpose of this study is to become more familiar with the language and its associated culture(s). Different types of texts, both literary and non-literary, can be read as part of this study.

In the literary options students consider how writers use language and style to present ideas, themes, feelings and attitudes. They also explore what aspects of a literary text are specific to the language and its associated culture(s) and what aspects cut across cultural and linguistic boundaries. It is this exploration of the specific and the universal, in the literary as well as the cultural options, that links the course to the broader aims of the IBO: to provide an education that enriches the international awareness of students and develops in them the attitudes of tolerance, empathy and a genuine respect for perspectives different from their own.

MPTC ORAL AND INTERPERSONAL COMMUNICATION

OPEN TO: Grade 12
PREREQUISITE: None
ELECTIVE
1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

This course focuses upon developing speaking, verbal and nonverbal communication, and listening skills through individual presentations, group activities, and other projects. The student will gain an understanding of communication theory, including nonverbal and listening patterns in speech, and identify obstacles to organizational communications. The student will improve interpersonal relationships through the understanding of speech communication.

MPTC WRITTEN COMMUNICATION

OPEN TO: Grade 12
PREREQUISITE: None
ELECTIVE
1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

This course develops writing skills that include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the student analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. This course also develops critical reading and thinking skills through the analysis of a variety of written documents.

CREATIVE WRITING (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

In this course, students will explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. Students will study examples of writing through classic and contemporary selections and will apply that knowledge and understanding to their writing. In addition, students will develop an intimate understanding of the writing process and its application to various projects. As students move through the course, they will understand and evaluate the writings of others, and be able to apply the evaluation criteria to their own writing. By the end of the course, students will have created a well-developed portfolio of finished written works. Learning activities include reading; listening; discussing; writing; multiple choice games; self-check activities; and reflective journals. The unit structure includes the broader idea of the unit as defined by the main heading. Units will include a combination of activities and will culminate in a submittal of the finished unit project. Unit projects will be developed in phases throughout each section of the unit. Unit lessons and performance tasks have been scaffolded carefully to help students achieve deeper levels of understanding

GRAMMAR AND COMPOSITION (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

This course is designed for the student who needs extra help in mastering communication skills and fundamental principles of grammar and usage. The course focuses on teaching the composition concepts in the 6 + 1 Traits of Writing pioneered by the Northwest Regional Education Laboratories. Grammar is taught as a tool for improving communication rather than as a pure focus of study. Oral Communication and research skills are included. Although there is some literature study in the course, it is not the focus. The course emphasizes diagnosis of student writing needs and targeting individualized needs for improvement. No required text.

AP ENGLISH LANGUAGE (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

This advanced course focuses on reading and analyzing non-fiction prose, with an emphasis on philosophy. Written assignments focus on philosophical topics, which include ethics, knowledge and thought, the problem of truth, causality, metaphysics, political philosophy, and aesthetics.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP ENGLISH LITERATURE AND COMPOSITION (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

In this advanced placement course, students learn to read and comprehend some of the finest poetry, plays, novels, short stories, and essays written at various times in various cultures, with an emphasis on literature originally written in English. Through reading and writing, students 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 response from readers. This course prepares students for the AP Literature and Composition exam.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Family and Consumer

MPTC EARLY CHILDHOOD EDUCATION (DL) Offered 1st Semester.

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course introduces learners to the early childhood education profession. Learners examine types of early childhood education settings, the history of early childhood education, legal and ethical responsibilities of early childhood education professionals, and early childhood education professional organizations. Learners also assess their ability to work in this profession and initiate development of a professional plan. This course meets State of Wisconsin educational requirements for licensing as an Assistant Child Care Teacher.

MPTC GUIDING CHILDREN'S BEHAVIOR (DL) Offered 2nd Semester.

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course focuses on applying positive guidance principles in early childhood education. Learners explore guidance strategies and adult behaviors that support the strategies. Learners also assess their own values, beliefs, and behaviors that guide their interactions with young children.

Foreign Language

FRENCH 1

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

The student will be introduced to reading, writing, speaking and understanding French. Vocabulary covered includes greetings, simple conversational phrases, pastimes, likes/dislikes, food, and family. The student will also learn basic grammar rules and verbs in the present tense. Course materials used include CDs videotapes, and written text in each chapter. Students will also investigate the language and culture through individual and group projects. Text: Allez-Viens! Level I.

FRENCH 2

OPEN TO: Grades 9 -12 ELECTIVE
PREREQUISITE: French 1 1 Credit

The French 2 student will expand vocabulary, strengthen grammar base, and extend reading, listening, and speaking skills. Vocabulary includes describing people and places, food, shopping, expressing opinions, giving directions, and making plans.

Grammar and vocabulary study includes a review of French I. New grammar includes past tense of regular and irregular verbs, reflexive verbs, direct and indirect pronouns, and relative pronouns. Aural and oral proficiency is developed through the use of the video program, CDs, classroom listening, and exercises including skits, interviews, oral presentations, and culture projects.

Writing skills are expanded through workbook and textbook exercises.

Text: Allez-Viens! Level II.

FRENCH 3

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: French 2 1 Credit

The purpose of French 3 is to expand on grammar and vocabulary presented in previous years in order to increase language proficiency. French 3 grammar reviews the present and past tense. Imperfect, future, conditional, and subjunctive are introduced. New vocabulary includes expressing enthusiasm and boredom, giving and asking directions, asking permission, household chores, clothing, and making arrangements. Writing ability is developed through workbook exercises and projects. Culture is included in each chapter.

Text: Allez-Viens! Level III.

FRENCH 4 & 5

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: French 3 1 Credit

This course will review the major grammar and vocabulary concepts of French I-III. Students will continue to build conversational and written skills through oral and written work. Students will study history, literature, grammar, and cultural aspects of the language using authentic texts, and will be expected to participate using the French language. This is a two-year course which will differ each year.

SPANISH 1

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

This course is an introduction that involves understanding the spoken language, speaking, reading, and writing. The student will learn to understand and express ideas in telling and asking names, greeting people, referring to family members and other people, telling age and origin, describing people and objects, ordering food in a restaurant, having a telephone conversation, describing school life, and telling time.

Other vocabulary includes numbers to one hundred, colors, clothing, table setting, classroom and school words, weather, days of the week, months, seasons, and animals.

Students will explore cultural aspects of life in Spain, Mexico and other Spanish-speaking countries through the use of video tape, music, audio tapes, filmstrips, and written materials.

High school students who wish to begin Spanish will take Spanish 1 with the 8th grade class.

SPANISH 2

OPEN TO: Grades 9 -12 ELECTIVE
PREREQUISITE: Spanish 1 1 Credit

This course is a continuation of Spanish 1 with increased emphasis on speaking skills. Students will learn vocabulary involving personal relationships, household items, food, travel and tourism, health and hygiene, and nature.

Students will also learn to describe events in the past, work with prepositional phrases, and begin to use the future tense.

The study of Hispanic culture is continued through the use of videotapes, music, and written materials.

SPANISH 3

OPEN TO: Grades 10 -12 ELECTIVE
PREREQUISITE: Spanish 2 1 Credit

This course is a continuation of Spanish 2 with an increased emphasis on speaking. Vocabulary will include clothing, government, neighborhoods, and descriptive adjectives. After reviewing verb tenses from Spanish 1 and 2, students will continue working with the future, conditional, and subjunctive tenses. Content will be supplemented by short readings, writing activities, and conversation.

Cultural awareness is further developed through literature, videotapes, and music. Presentations and discussions are presented primarily in the Spanish language.

SPANISH 4 & 5

OPEN TO: Grades 11-12 ELECTIVE (This course may be repeated.)
PREREQUISITE: Spanish 3 1 Credit

Conversational and written proficiency will be further developed in this course. Daily discussions will be held, and students will be expected to participate utilizing the Spanish language. Cultural knowledge will be expanded through the use of novels and poetry, the study of art and artists, and the study of economics, politics, and societies within Hispanic countries. Academic content will vary each year to expose students to different material.

IB FRENCH SL, HL (IB DIPLOMA PROGRAM)

IB SPANISH SL, HL

OPEN TO:	Grades 11 & 12	ELECTIVE
PREREQUISITE:	French 1, French 2 Spanish 1, Spanish 2	1 or 2 Credits

The French/Spanish program is primarily a pre-university course in literature. It is aimed at students who intend to pursue literature, or related studies, at university, as well as at students whose formal study of literature will not continue beyond this level. The former would normally follow the Higher Level (HL) program and the latter the Standard Level (SL).

Literature is concerned with our conceptions, interpretations and experiences of the world. The study of literature, therefore, can be seen as a study of all the complex pursuits, anxieties, joys and fears that human beings are exposed to in the daily business of living. It enables an exploration of one of the more enduring fields of human creativity and artistic ingenuity, and provides immense opportunities for encouraging independent, original, critical and clear thinking. It also promotes a healthy respect for the imagination and a perceptive approach to the understanding and interpretation of literary works. The discussion of literature is itself an art which requires the clear expression of ideas both orally and in writing.

The French/Spanish program encourages students to see literary works as products of art and their authors as craftsmen whose methods of production can be analyzed in a variety of ways and on a number of levels. This is achieved through the emphasis placed on exploring the means used by different authors to convey their subjects in the works studied. It is further reinforced by the comparative framework emphasized for the study of these works in all parts of the program. The flexibility of the program allows teachers to choose challenging works from their own sources to suit the particular needs and interests of their students. It also allows teachers to participate significantly, through the internally assessed oral component, in the overall assessment of their students.

CHINESE 1 (MANDARIN) (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	None	1 Credit

This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (simplified). In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. This course is aligned to national Foreign Language standards. Students are introduced to the simplified Chinese writing system in this class. No text required.

CHINESE 2 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	Chinese 1	1 Credit

This course is a continuation of a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Daily Routine, Animals, Hobbies, The Body and Descriptions), students learn to express themselves using an ever increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards. No text required.

GERMAN 1 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	None	1 Credit

First year German students start out by learning introductions, greetings, and the days of the week, words and phrases to find out information, vowel pronunciation, and how to use articles, plurals, and noun/adjective agreement with gender. From there, they begin to incorporate their new vocabulary through rhythm and cadence, recognize sentence patterns and build comprehension skills, increase their fluency, practice counting and simple math, learn to form plurals with greater accuracy, use infinite verbs, and form question statements.

GERMAN 2 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	German 1	1 Credit

The second year of German expands students' written and spoken fluency, placing a continued emphasis on reading, writing, listening, and speaking. Students learn to understand and use small talk, and they practice using new vocabulary in conversations and stories. They master object pronouns with finite and infinite verbs, learn geography vocabulary, study pronouns and past and present tenses, identify and describe objects, use genitive plural and singular forms, expand their cultural knowledge, and build fluency through repetition.

GERMAN 3 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	German 2	1 Credit

German III has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme.

GERMAN 4 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	German 3	1 Credit

This fourth year of German builds upon the first three levels. Students will continue to sharpen their reading, writing, and listening skills as well as learn skills to think critically and express themselves on topics relevant to German culture. This fourth level will include authentic texts, current culture, and literature from Germany, Austria, and Switzerland. Every two units will be a special focus on a particular region or city from these areas; these will include such things as culture, tourism, and current events. Students will learn vocabulary, grammar skills, and cultural competency to express themselves on a variety of topics in German. Cultural topics include: contemporary and classical music, expressing opinion, German history, transportation, family, weekend travel, free time activities, youth and technology, multiculturalism, holidays, education, career, and travel in a foreign country. This course is aligned to the national ACTFL Foreign Language standards and provides a way to focus on the five aspects of foreign language instruction: communication, culture, connections, comparisons, and community. These are the "Five C's of the Foreign Language Education" as outlined in *Standards for Foreign Language Learning: Preparing for the 21st Century*. No text required.

JAPANESE 1 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

Japanese I is a two semester course has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, selfchecks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme. No text required

JAPANESE 2 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: Japanese 1 1 Credit

Japanese II is a two semester course that has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, selfchecks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme. No text required.

LATIN 1 (WVS)

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

This course introduces students to fundamental vocabulary and basic grammatical concepts of the Latin language. Grammar and vocabulary are taught with the latest advances in interactive multimedia technology.

In addition to grammar and translation assignments, this two-semester course includes seven (7) mini-projects on Roman Life, four (4) mini-projects on Greek and Roman mythology, and four (4) Word Studies. Students will also participate in class discussions and work in groups on projects related to archaeological excavations Roman towns, including Pompeii, Herculaneum, and Zeugma, and Roman inventions.

LATIN 2 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: Latin 1 1 Credit

Latin 2 is the continuation of Latin grammar and a deeper study of Roman Mythology and history. The grammar in Latin 2 reviews topics from Latin 1 with expanding use of declensions, adjectives, adverbs, and cases. These skills will be used to translate longer Latin texts to English that require more knowledge of grammar rather than just vocabulary recall. The culture part of the course is an in-depth study of The Odyssey, the underworld, the rulers and kings of Rome, and entertainment.

WORLD LANGUAGE SURVEY (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

In this world language course, students will be introduced to 6 different languages within 18 weeks. The languages include Spanish, French, German, Latin, Chinese and Japanese. Each language will be taught in a period of 3 weeks. This multilingual course is designed to give students an opportunity to gain understanding of a language that they might want to further study in the future. The course takes a multi-perspective approach for teaching the culture of the people that speak the language, along with fundamental communication skills in the target language. Activities that engage students and make language learning exciting and fun will be incorporated to build acquisition. The language will be taught using the communicative method which combines listening, speaking, reading and writing in the target language with the use of multimedia resources.

AP FRENCH LANGUAGE (WVS)

OPEN TO: Grades 12 ELECTIVE
PREREQUISITE: French 4/5 with 3.5 grade average 1 Credit

AP French Language students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write complicated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP French Language prepares students for the AP Exam and for further study of French language, culture, and literature. The course does not use a specific text. Rather, a variety of poems, short stories, essays, and plays are provided within the course. Students must have a microphone to submit speaking assignments.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP SPANISH LANGUAGE (WVS)

OPEN TO: Grades 12 ELECTIVE
PREREQUISITE: Spanish 4/5 with 3.5 grade average 1 Credit

AP Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, the two-semester AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature. The course does not use a specific text, however a variety of poems, short stories, essays and plays are provided within the course. Students must have a microphone to submit speaking assignments.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Mathematics

Students should consult with math instructors for placement suggestions.

ALGEBRA/GEOMETRY 1A

ALGEBRA/GEOMETRY 1B

OPEN TO:	Grade 9-12	ELECTIVE
PREREQUISITE:	None	1 Credit

Same content as Algebra/Geometry 1 but taught over two years.

ALGEBRA/GEOMETRY 1

OPEN TO:	Grade 9-12	ELECTIVE
PREREQUISITE:	None	1 Credit

Math for the International Student 9 is a continuation of the junior high curriculum, and includes the following: the real number system (conceptual process of quantification, properties of rational and irrational numbers, powers, roots and rational exponents), algebra (structure of expressions, create and solve linear equations, inequalities and systems, maxima and minima, solve systems of equations, use coordinates to prove simple theorems), statistics (create and interpret linear, quadratic and exponential models).

ALGEBRA/GEOMETRY/STATISTICS

OPEN TO:	Grades 9 -12	ELECTIVE
PREREQUISITE:	None	1 Credit

Math for the International Student 10 is a continuation of the international math series designed to build confidence and encourage an appreciation of mathematics in students who do not anticipate a need for mathematics in their future studies. The course includes the following: number and quantity (rational numbers, accuracy), geometry (parallel, perpendicular, triangles, quadrilaterals and regular polygons, congruence, similarity, dilations, transformations (observation, descriptive models, analytic modeling), statistics (standard deviation, area under normal curve, correlation coefficient, linear, quadratic and exponential regression, independence and conditional probability, permutations and combinations, expected values, random variables, expected values and payoffs) and financial math.

ALGEBRA/GEOMETRY/PRECALCULUS

OPEN TO:	Grades 9 - 12	ELECTIVE
PREREQUISITE:	None	1 Credit

Math for the International Student 10+ is a continuation of the international math series for students who anticipate a rigorous study of mathematics. The course includes the following: number and quantity (rational numbers, accuracy), geometry (parallel, perpendicular, triangles, quadrilaterals and regular polygons, congruence, similarity, dilations, transformations in a plane, circle theorems), trigonometry (define and use trig ratios in right triangles, unit circle), model real-world solution (observation, descriptive models, analytic modeling), statistics (standard deviation, area under normal curve, correlation coefficient, linear, quadratic and exponential regression, independence and conditional probability, permutations and combinations, expected values, random variables, expected values and payoffs) and financial math.

IB MATH STUDIES SL (IB DIPLOMA PROGRAM)

OPEN TO: Grades 11 & 12
PREREQUISITE: Algebra/Geometry 1 OR Algebra/Geometry/Statistics OR Algebra/Geometry/Pre-Calculus

ELECTIVE
1 or 2 Credits

This course 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 taking this course need to be equipped with fundamental skills and a rudimentary knowledge of basic processes.

The course consists of the study of seven topics:

- Topic 1—Number and algebra
- Topic 2—Sets, logic and probability
- Topic 3—Functions
- Topic 4—Geometry and trigonometry
- Topic 5—Statistics
- Topic 6—Introductory differential calculus
- Topic 7—Financial mathematics

IB MATH SL (IB DIPLOMA PROGRAM)

OPEN TO: Grades 11 & 12
PREREQUISITE: Algebra/Geometry/Pre-Calculus

ELECTIVE
1 or 2 Credits

This course 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 majority of these students will expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology and business administration.

The internal assessed component, the portfolio, offers students a framework for developing independence in their mathematical learning by engaging in mathematical investigation mathematical modeling. Students are provided with opportunities to take a considered approach to these activities and to explore different ways of approaching a problem. The portfolio also allows students to work without the time constraints of a written examination and to develop skills needed for communicating mathematical ideas.

The course consists of the study of seven topics:

- Topic 1—Algebra
- Topic 2—Functions and equations
- Topic 3—Circular functions and trigonometry
- Topic 4—Matrices
- Topic 5—Vectors
- Topic 6—Statistics and probability
- Topic 7—Calculus

MPTC TECHNICAL MATH 1A

OPEN TO: Grade 12
 PREREQUISITE: None

ELECTIVE
 1/2 Credit and
 Moraine Park Technical College Credit (3 Cr)

This course examines linear, quadratic and rational equations, graphs functions, rearranges formulas, solves systems of equations, and solves percent and proportion problems.

MPTC TECHNICAL MATH 1B

OPEN TO: Grade 12
 PREREQUISITE: None

ELECTIVE
 1/2 Credit and
 Moraine Park Technical College Credit (3 Cr)

This course is a continuation of College Technical Mathematics 1A. It includes measurement systems, computational geometry, right and oblique triangle trigonometry, and trigonometric functions on the unit circle.

CALCULUS (WVS)

OPEN TO: Grade 12
 PREREQUISITE: Trigonometry/Pre-Calculus

ELECTIVE
 1 Credit

This course introduces limits, differentiation, and integration of functions. Students will find and evaluate finite and infinite limits graphically, numerically, and analytically. They will find derivatives using a variety of methods including The Chain Rule and Implicit Differentiation. They will use the First Derivative Test and The Second Derivative Test to analyze and sketch functions. Subsequently, students will find antiderivatives using a variety of methods including substitution. They will evaluate integrals using a variety of methods including numerical integration. They will understand and apply Riemann sums, definite integrals, and The Fundamental Theorem of Calculus. In particular, they will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. They will solve simple differential equations that can be solved by separation of variables and use them to solve applied problems. They will use integration to determine the area between two curves, volume, and surface area. Finally, they will apply integration to determine work, center of mass, and fluid force.

The use of a graphing calculator is considered an integral part of the course and students will use a graphing calculator throughout this course.

CONSUMER MATH (WVS)

OPEN TO: Grade 11-12
 PREREQUISITE: None

ELECTIVE
 1 Credit

This is comprehensive review and study of arithmetic skills that apply to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Practical applications in finance, taxes, budgeting, banking and home ownership are provided.

INTEGRATED MATH (WVS)

OPEN TO: Grade 11-12
 PREREQUISITE: None

ELECTIVE
 1 Credit

The purpose of this course is to provide students with an overview of the many mathematical disciplines. Topics included are number sense, geometry, algebra, measurement, probability & statistics, and data interpretation. Assessments within the course include multiple-choice, short-answer, or extended response questions. Also included in this course are self-check quizzes, audio tutorials, web quests and interactive games.

Students will build mathematical skills that allow students to solve problems and reason logically. Students will be able to communicate their understanding by organizing, clarifying, and refining mathematical information for a given purpose; students will use everyday and mathematical language and notation in appropriate and efficient forms to clearly express or represent complex ideas and information.

AP CALCULUS AB (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Trigonometry/Pre-Calculus 1 Credit

This Advanced Placement course introduces limits, differentiation, and integration of functions. Students will find and evaluate finite and infinite limits graphically, numerically, and analytically. They will find derivatives using a variety of methods including The Chain Rule and Implicit Differentiation. They will use the First Derivative Test and The Second Derivative Test to analyze and sketch functions.

Subsequently, students will find antiderivatives using a variety of methods including substitution. They will evaluate integrals using a variety of methods including numerical integration. They will understand and apply Riemann sums, definite integrals, and The Fundamental Theorem of Calculus. In particular, they will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. They will solve simple differential equations that can be solved by separation of variables and use them to solve applied problems. They will use integration to determine the area between two curves and the volume of solids. TI 83 Plus Calculator required. Optional text

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP CALCULUS BC (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Advanced Algebra 1 Credit

This is a college level course covering derivatives, integrals, limits, approximation, applications and modeling, and sequences and series. Knowledge of algebra, geometry, trigonometry, analytic geometry, and elementary functions required. TI 83 Plus Calculator required. Optional text

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP STATISTICS (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Advanced Algebra 1 Credit

AP Statistics data analysis is dependent on the use of technology. Students should have access to computers that include software capable of doing data analysis. Students will be required to interpret output generated by statistical software programs. Students are not expected to learn how to use various statistical programs. In addition one of the following Texas Instruments calculators is required, TI-83, TI-83+, TI-84, TI-84+, or a TI 89. The TI-83+ is the most popular calculator for AP Statistics. In most cases the calculator is sufficient but the fundamental tool of data analysis is the computer. Textbook Required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Performing Arts

BAND

OPEN TO: Grades 9-12 ELECTIVE (This course may be repeated.)
PREREQUISITE: None 1 Credit

This course offers the instrumental student an opportunity to develop musical and performance skills, social responsibility, as well as providing incentive for active, creative participation in civic and school activities. The band performs as a marching unit, a pep band, and in a concert capacity playing classic band literature as well as contemporary pieces. Band students are required to participate in various performances as scheduled throughout the year. These performances include pep band at various after school sporting events, concert performances, weekend parades, and school assemblies. Students will be expected to attend rehearsals, lessons, and to work individually in the form of home practice. Proficient students will have the opportunity to audition for special regional and statewide music festivals and honor bands throughout the school year. Provisions for inexperienced music students to join the band can be made possible with individual accelerated lessons.

Jazz Band, which is voluntary, is available to band members who want to broaden their musical horizons and experiment with improvising. The Jazz Band rehearses outside regular school hours and performs the big band genre, swing, blues, Latin, and modern jazz compositions. Jazz Band performance opportunities are scheduled throughout the year. Students must be enrolled in Concert Band to enter or participate in the State Solo & Ensemble festival.

This course may be taken every-other-day, alternating with Choir, for 1 credit.

CONCERT CHOIR

OPEN TO: Grades 9-12 ELECTIVE (This course may be repeated.)
PREREQUISITE: None 1 Credit

This course covers the study and performance of choral literature representing the various periods and styles, including the development of the concepts of melody, rhythm, texture and form. Students are required to participate in conference, district and state music contests and other public performances as scheduled throughout the year. Individual lessons are also required to develop and encourage each student's talents.

This course may be taken every-other-day, alternating with Band, for 1 credit.

IB MUSIC SL (IB DIPLOMA PROGRAM)

OPEN TO: Grades 11 & 12 ELECTIVE
PREREQUISITE: Concurrent Enrollment in Choir or Band 1 or 2 Credits

Music functions as a means of personal and communal identity and expression, and embodies the social and cultural values of individuals and communities. This scenario invites exciting exploration and sensitive study. Music, and all of its associations, may vary considerably from one musical culture to another, yet music may have similarities. Such richness offers a variety of ways to encounter and engage with a constantly changing world.

A vibrant musical education fosters curiosity and openness to both familiar and unfamiliar musical worlds. Through such a study of music, students learn to hear relationships of pitch in sound, pattern in rhythm and unfolding sonic structures. Through participating in the study of music, students are able to explore the similarities, differences and links in music from within their own culture and that of others across time. Informed and active musical engagement allows students to explore and discover relationships between lived human experience and specific sound combinations and technologies, thus understanding the world around us and the nature of humanity.

The Diploma Programme music course provides an appropriate foundation for further study in music at university level or in music career pathways. It also provides an enriching and valuable course of study for students who may pursue other careers. This course also provides all students with the opportunity to engage in the world of music as lifelong participants.

SL students must choose one of three options:

- Creating (SLC)
- Solo performing (SLS)
- Group performing (SLG).

MUSIC APPRECIATION (WVS)

OPEN TO: Grades 9-12

ELECTIVE

PREREQUISITE: None

1/2 Credit

This one-semester course introduces students to the elements, instrumentation, and historical periods of music. Students will learn the significance of surroundings and time periods and how they both influenced the music of the day. Students will listen to and evaluate several types of music, and will be assessed through projects, presentations, and exams on the knowledge and understanding of music.

Physical Education

PHYSICAL EDUCATION 9/HEALTH 9

OPEN TO:	Grade 9	REQUIRED
PREREQUISITE:	None	1 Credit

Physical Education 9 and Health 9 meet every other day throughout the school year. The Physical Education course is designed to meet the physical fitness, health, recreational and social needs of the student. Activities include the fundamentals of sports, games, and fitness, as well as other instruction designed to aid the student's physical development. Cardiovascular activities are required according to the ability of the student. The student is evaluated quarterly on fitness, knowledge (written and oral), written assignments, participation and skills.

The Health 9 course presents relevant, up to date information about health issues. The student sets goals to direct action toward healthy decisions and behaviors. The student is challenged to have quality physical, emotional, mental, and social health. The ten major content areas included and recommended by the state are: accident prevention and safety, community health, consumer health, environmental health, family life education, mental and emotional health, nutrition, personal health, prevention and control of disease (including STDs and AIDS), and substance use and abuse.

LIFETIME ACTIVITIES 1

Offered 1st Semester

OPEN TO:	Grades 10-12	ELECTIVE
PREREQUISITE:	None	1/2 Credit

Students will participate in a wide range of individual sports that can be pursued for a lifetime. This course will include tennis, walking, jogging, archery, biking, bowling, pickleball, and table tennis. Students may also be engaged in other activities that promote physical fitness.

LIFETIME ACTIVITIES 2

Offered 2nd Semester

OPEN TO:	Grades 10-12	ELECTIVE
PREREQUISITE:	None	1/2 Credit

Students will participate in a wide range of individual sports that can be pursued for a lifetime. This course will include badminton, cross country skiing, golfing, fishing, weight lifting, self defense, yoga, meditation, inline skating, and aerobics. Students will also be engaged in other activities that promote physical fitness.

PERSONAL FITNESS

OPEN TO:	Grades 10-12	ELECTIVE
PREREQUISITE:	None	1/2 Credit

This course is designed for the student who wants to understand the basic elements of physical fitness and develop his/her own fitness plan. Students will learn how to build each of the five health fundamentals: strength, cardiovascular fitness, muscular endurance, flexibility, and body fatness. Students will be engaged in different activities that include aerobics, fitness walking, strength conditioning, stress management, meditation, yoga, jogging, inline skating, and other wellness activities. Customized fitness routines will be developed for each participant.

NUTRITION AND WELLNESS WVS

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	None	1/2 Credit

This one semester course will introduce the student to an overview of good nutrition principles that are needed for human physical & mental wellness. Discussion of digestion, basic nutrients, weight management, sports & fitness, and life-span nutrition is included. Application to today's food and eating trends, plus learning to assess for reliable nutrition information is emphasized.

Science

PHYSICAL SCIENCE

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

Physical Science is an introduction to the basic physical concepts that are needed for further study in the physical sciences. The units of study in chemistry and physics cover matter, chemical reactions, motion, force, energy, electricity, magnetism, and atomic structure.

BIOLOGY 1

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

Fundamental principles and concepts of biology are presented in this course through lecture, laboratory investigation, and field trips. Subject topics include biochemistry, cell theory and cellular processes, genetics, evolution, invertebrate and vertebrate biology, survey of animal and plant kingdoms, and ecology.

**Grade 9 students must have earned a B- or better in grade 8 science for both semesters or have scored proficient or higher on the 8th grade WKCE test to enroll.*

CHEMISTRY 1

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: Algebra or Applied Math 2 1 Credit

Basic fundamentals of chemistry are taught through lecture and lab. Topics include: the gaseous state and Kinetic Molecular Theory, mole concept, symbols, formulas and equations, Periodic Law, atomic structure, quantum theory, electronic orbitals and configurations, chemical bonding, acid-base theory, chemical equilibria, redox reactions, chemical energy, thermodynamics, and an introduction to organic and biochemistry. Laboratory investigations demonstrate chemical concepts and stress scientific method and lab techniques.

PHYSICS

Offered every other year; Next offering 2012-2013.

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITES: Adv. Algebra or concurrent enrollment 1 Credit

Physics is the study of the relationships between matter and energy. The student will carry out computer interfaced experiments and solve mathematical physics problems. Topics studied will include motion, vectors, forces, gravitation, momentum, energy, waves and light, electricity, and modern physics.

BIOLOGY 2

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Biology 1 and Chemistry 1 Credit

Biology 2 is recommended for the advanced student interested in studies that emphasize human biology. Course subjects include molecular and cellular biology; plant biology; anatomy and physiology of human body systems; inheritance and development; evolution and diversity; and behavior and ecology. Independent student research is encouraged. Lecture, discussion and laboratory format.

CHEMISTRY 2OPEN TO:
PREREQUISITE:**Offered every other year; Next offering 2011-2012.**Grades 11-12
Chemistry 1;ELECTIVE
1 Credit

This course involves an in-depth study of topics covered in Chemistry I. Emphasis is on problem solving and laboratory data analysis. Many of the topics in a regular freshman college chemistry course are studied, including: atomic structure, gas laws, and rates of reactions, acid-base chemistry, chemical equilibrium, thermo-chemistry, bond theory, oxidation-reduction, organic chemistry, biochemistry and electrochemistry.

IB BIOLOGY SL, HL (IB DIPLOMA PROGRAM)OPEN TO:
PREREQUISITE:Grades 11 & 12
Biology, ChemistryELECTIVE
1 or 2 Credits

Biologists have accumulated huge amounts of information about living organisms, and it would be easy to confuse students by teaching large numbers of seemingly unrelated facts. In the Diploma Programme biology course, students will acquire a limited body of facts and, at the same time, develop a broad, general understanding of the principles of the subject.

Although the Diploma Programme biology course at standard level (SL) and higher level (HL) has been written as a series of discrete statements (for assessment purposes), there are four basic biological concepts that run throughout:

- **Structure and Function:** This relationship is probably one of the most important in a study of biology and operates at all levels of complexity. Students should appreciate that structures permit some functions while, at the same time, limiting others.
- **Universality and Diversity:** At the factual level, it soon becomes obvious to students that some molecules (for example, enzymes, amino acids, nucleic acids and ATP) are ubiquitous, and so are processes and structures. However, these universal features exist in a biological world of enormous diversity. Species exist in a range of habitats and show adaptations that relate structure to function. At another level, students can grasp the idea of a living world in which universality means that a diverse range of organisms (including ourselves) are connected and interdependent.
- **Equilibrium within Systems:** Checks and balances exist both within living organisms and within ecosystems. The state of dynamic equilibrium is essential for the continuity of life.
- **Evolution:** The concept of evolution draws together the other themes. It can be regarded as change leading to diversity within constraints, and this leads to adaptations of structure and function. These four concepts serve as themes that unify the various topics that make up the three sections of the course: the core, the additional higher level (AHL) material and the options.

IB ENVIRONMENTAL SYSTEMS AND SOCIETY SL (IB DIPLOMA PROGRAM)OPEN TO:
PREREQUISITE:Grades 11 & 12
Biology, Chemistry
US History, World HistoryELECTIVE
1 Credit

As a transdisciplinary subject, Environmental Systems and Societies is designed to combine the techniques and knowledge associated with group 4 (the experimental sciences) with those associated with group 3 (individuals and societies). By choosing to study a transdisciplinary course such as this as part of the diploma, students are able to satisfy the requirements for both groups 3 and 4 of the hexagon, thus allowing them to choose another subject from any hexagon group (including another group 3 or 4 subject). Transdisciplinary subjects therefore introduce more flexibility into the IB Diploma Programme.

The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The approach is conducive to students evaluating the scientific, ethical and socio-political aspects of issues.

MPTC CAREERS IN ALLIED HEALTH (DL) Offered 1st Semester.

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

This course explores career possibilities within the health care industry. Students examine the characteristics and skills needed for a wide range of careers in health care. Students also gain perspective about what it takes to be an effective team member. The course focuses on nursing, health management, laboratory technology, health information technology, therapy, diagnostics, dental, surgical, and other health care related careers.

MPTC MEDICAL TERMINOLOGY (DL) Offered 2nd Semester

OPEN TO: Grade 11 and 12 ELECTIVE
PREREQUISITE: None 1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

Medical Terminology studies the component parts of medical terms: prefixes; suffixes; and word roots. Students will practice formation, analysis and reconstruction of terms with an emphasis on spelling, definition, and pronunciation. The course will include introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems as well as systematic and surgical terminology.

EARTH SCIENCE (WVS)

OPEN TO: Grade 11 and 12 ELECTIVE
PREREQUISITE: None 1 Credit

This introductory two semester Earth Science course incorporates the body of knowledge and facts accumulated from people's observations of the Earth around them and the skies above them. This observed information of the earth has evolved over centuries into the branch of science known as earth science. Earth science has several different branches of study: the solid earth (geology); the earth's waters (hydrology and oceanography); the earth's atmosphere (meteorology); and the universe beyond earth (astronomy). Using careful observation and experimentation, students will learn to effectively analyze and evaluate the earth's natural phenomena and their causes, as well as, its relationship in the universe by focusing on the four major areas of study.

AP BIOLOGY (WVS)

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: Biology, Chemistry 1 Credit

This course is a comprehensive analysis of general biology that includes biochemistry, molecular biology, genetics, mechanisms of evolution, evolutionary history of biological diversity, plant and animal form and function, and ecology. The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors or pre-medical students their first year. The textbook used, the range and depth of topics covered, discussion topics and kinds of labs done in this course are equivalent to those taking this course in college. College Board guidelines are followed in determining the course. Textbook Required. Lab kits are optional.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP CHEMISTRY (WVS)

OPEN TO:

Grade 12

ELECTIVE

PREREQUISITE:

Chemistry

1 Credit

Advanced Placement Chemistry is designed to duplicate an equivalent full-year introductory college course covering all aspects of general Chemistry. Students will learn fundamental analytical skills to logically assess chemical problems proficiently. Through fascinating and elaborative lessons, students will develop the skills necessary to arrive at conclusions based on informed judgment and present evidence in clear and persuasive essays. Textbook Required; Lab kits are optional.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP ENVIRONMENTAL SCIENCE (WVS)

OPEN TO:

Grade 11-12

ELECTIVE

PREREQUISITE:

Biology, Chemistry, Algebra

1/2 Credit

This course is designed to acquaint students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the interrelationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading to environmental degradation and pollution. The course consists of six chapters covering the following topics: Earth's Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes and Environment and Society. Chapters are divided into several subsections, each of which contains text, animations, laboratory simulations and video presentations by experts. Textbook Required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area..

AP PHYSICS B (WVS)

OPEN TO:

Grade 11-12

ELECTIVE

PREREQUISITE:

Algebra 2

1 Credit

Physics Recommended

AP Physics is a yearlong introduction to the algebra-based major areas of physics – mechanics, fluids, waves, optics, electricity, magnetism and modern physics (atomic and nuclear). Students learn to think like scientists: making predictions based on observations, writing hypothesis, designing and completing experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of physics to their everyday experiences and current events and issues in science and engineering. The course provides opportunities for guided inquiry and student-centered learning to foster critical thinking skills. Textbook required Lab kits are optional.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Social Studies

U.S. HISTORY

OPEN TO: Grade 9 REQUIRED
PREREQUISITE: None 1 Credit

U.S. History traces the political, military, and social development of our country from Reconstruction (1877) to the present. Emphasis is on the cause and effect relationship between periods of history. Units include business growth, settlement of the West, immigration, overseas expansion, World War I, the Great Depression, World War II, the Korean and Cold Wars, the Civil Rights movement, Vietnam and the 1960's, and recent historical developments.

AMERICAN GOVERNMENT

OPEN TO: Grade 10 REQUIRED
PREREQUISITE: None 1/2 Credit

The American government course examines the origins of government and comparative governments. The organization, structure, and functions of the executive, legislative, and judicial branches are studied. The election process and voter behavior are also considered as is the historical development of the Constitution and civil rights. Building of political vocabulary is stressed.

WORLD HISTORY 1A/1B *Offered 2nd Semester (Gr 10); Offered 1st Semester (Gr 11).

OPEN TO: Grade 10-11 REQUIRED
PREREQUISITE: None 1 Credit

World history traces the development of early humans and early civilizations around the world. From the study of the Middle Ages, the Renaissance, and the Reformation, students are shown how modern nations evolved to their present form. The study of the Industrial Revolution, social protest, and the rise of mass society will precede an in-depth look at both world wars. Major trends and developments in the world, from 1945 to the present, are also examined. The objective is to show the relation of other nations and their histories to present day America.

WORLD STUDIES

OPEN TO: Grade 11 REQUIRED
PREREQUISITE: None 1/2 Credit

This course focuses on the cultural, physical and political geography of South America, Europe, Africa, and Asia. Particular emphasis is placed on 'The Five Themes of Geography'. The student will research and analyze how current issues and events in the United States and countries throughout the world help create a environment of interdependence. Particular emphasis will be placed on fostering *international mindedness*.

CULTURAL ANTHROPOLOGY

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

Cultural Anthropology is a course designed to provide students with a thorough exploration of the ideas, theories, and information found in the field of cultural anthropology. Human beings create, learn and adapt culture. Culture helps us to understand ourselves as both individuals and members of various groups. Cultural anthropology is the branch of anthropology that primarily deals with living human societies and their culture, as opposed to archeology which attempts to reconstruct 'extinct' societies, or physical anthropology which studies the physical past and present of the human animal. The course will touch on these fields as well, but the main focus will be on human cultural systems.

Cultural Anthropology will include the following:

1. What is anthropology, culture and enculturation.
2. Evolution and adaptation: primates, human and non, race, culture and ethnicity.
3. Language and communication, speech and sign language, non-verbal communication.
4. Cultural ecology and change.
5. Subsistence, bands and tribes, chiefdoms/states.

LEADERSHIP DEVELOPMENT

OPEN TO: Grades 9-12
PREREQUISITE: None

ELECTIVE
1/2 Credit

This course is designed to prepare the student for a variety of leadership roles in school, career and community. The student will participate in three kinds of leadership training activities: social skills training (sharing, cooperating, resolving conflicts, and setting priorities), technical skills training (creative problem solving, debating, parliamentary procedures, understanding group dynamics, building consensus, and giving feedback), and knowledge development (leadership styles, moral education, and organizational theory).

IB HISTORY SL, HL (IB DIPLOMA PROGRAM)

OPEN TO: Grades 11 or 12
PREREQUISITE: US History, World History

ELECTIVE
1 or 2 Credits

History is more than the study of the past. It is the process of recording, reconstructing and interpreting the past through the investigation of a variety of sources. It is a discipline that gives people an understanding of themselves and others in relation to the world, both past and present.

Students of history learn how the discipline works. It is an exploratory subject that poses questions without providing definitive answers. In order to understand the past, students must engage with it both through exposure to primary historical sources and through the work of historians. Historical study involves both selection and interpretation of data and critical evaluation of it. Students of history should appreciate the relative nature of historical knowledge and understanding, as each generation reflects its own world and preoccupations and as more evidence emerges. A study of history both requires and develops an individual's understanding of, and empathy for, people living in other periods and contexts.

Diploma Programme history consists of a standard level (SL) and higher level (HL) core syllabus comprising an in-depth study of an individual prescribed subject and the selection of two topics from the main developments in 20th century world history. At HL students select from a range of optional syllabuses that cover a wider time span encouraging in-depth study.

The Diploma Programme history course provides both structure and flexibility, fostering an understanding of major historical events in a global context. It requires students to make comparisons between similar and dissimilar solutions to common human situations, whether political, economic or social. It invites comparisons between, but not judgments of, different cultures, political systems and national traditions. The content of the history course is intrinsically interesting and it is hoped that many students who follow it will become fascinated with the discipline, developing a lasting interest in it, whether or not they continue to study it formally.

IB TOK (THEORY OF KNOWLEDGE) (IB DIPLOMA PROGRAM REQUIREMENT)

***Offered 2nd Semester (Gr 11); Offered 1st Semester (Gr 12).**

OPEN TO: Grades 11 - 12

REQUIRED FOR IB DIPLOMA

PREREQUISITE: None

1 Credit

The TOK course, a flagship element in the Diploma Programme, encourages critical thinking about knowledge itself to try to help young people make sense of what they encounter. Its core content utilizes questions such as these: *What counts as knowledge? How does it grow? What are its limits? Who owns knowledge? What is the value of knowledge? What are the implications of having, or not having, knowledge?*

What makes TOK unique, and distinctively different from standard academic disciplines, is its process. At the centre of the course is the student as knower. Students entering the Diploma Programme typically have 16 years of life experience and more than 10 years of formal education behind them. They have accumulated a vast amount of knowledge, beliefs and opinions from academic disciplines and their lives outside the classroom. In TOK they have the opportunity to step back from this relentless acquisition of new knowledge in order to consider knowledge issues. These include the questions already mentioned, viewed from the perspective of the student, but often begin from more basic ones: *What do I claim to know [about X]? Am I justified in doing so [how?]?* Such questions may initially seem abstract or theoretical, but TOK bring them into closer focus by taking into account students' interests, circumstances and outlooks.

TOK activities and discussions aim to help students discover and express their views on knowledge issues. The course encourages students to share ideas with others and to listen to and learn from what others think. In this process students' thinking and understanding of knowledge as a human construction are shaped, enriched and deepened. Connections may be made between knowledge encountered in different Diploma Programme subjects, in CAS experience or in extended essay research; distinctions between different kinds of knowledge may be clarified. Because the subject matter of the course is defined in terms of knowledge issues, there is no end to the valid questions that may arise in a TOK course. This guide consists mainly of questions that have been found to stimulate appropriate TOK inquiry.

MPTC PSYCHOLOGY

OPEN TO: Grades 11-12

ELECTIVE

PREREQUISITE: None

1/2 Credit and

Moraine Park Technical College Credit (3 Cr)

The purpose of the course is to introduce students to basic concepts in the area of human behavior. Topics include history of psychology, research and experimental psychology, learning theory, thinking, intelligence, creativity, human development, death, the brain, emotions, motivation, sleep, drugs, personality, abnormal behavior, and treatment of emotional problems. Class activities include small and large group discussions, demonstrations, experiments, and lectures. The student is expected to complete reports and a research paper during the course.

MPTC SOCIOLOGY

OPEN TO: Grade 11 -12

ELECTIVE

PREREQUISITE: None

1/2 Credit and

Moraine Park Technical College Credit (3 Cr)

Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multiculturalism, and the five institutions including family, government, economics, religion and education. Students examine sociological topics including demography, deviance, technology, environment, social issues, social change, social organization and workplace issues.

MPTC INTRODUCTION TO CRIMINAL JUSTICE SYSTEM (DL) Offered 1st Semester

OPEN TO: Grade 11 -12 ELECTIVE
PREREQUISITE: None 1/2 Credit and
Moraine Park Technical College Credit (3 Cr)

Criminal Justice explores the three main subsystems of the criminal justice system: law enforcement; courts; and corrections. The history, philosophy, structure, operations, procedures, and current issues and future trends of these three main subsystems are presented, discussed, and studied using a cooperative learning approach. This course also identifies the functions and jurisdiction of Wisconsin law enforcement and criminal justice system agencies and the sources and legal principles that form the foundation of Wisconsin criminal law in accordance with Wisconsin Training and Standards requirements 1.2 and 6.1.

Students choosing to take a Marian College courses must 1) have junior or senior class standing, AND 2) have a GPA of B and completed appropriate prerequisite courses, AND 3) rank in the top quartile OR have a cumulative GPA of 3.2, OR score in the top 15% of the most recent standardized test (PSAT or ACT) and a 3.0 GPA.

ECONOMICS (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production; land, labor, capital, and entrepreneurship are made. Key topics covered include: law of supply and demand; saving, borrowing, and spending; the Federal Reserve System and the money supply; and the role of government in an open market economy.

AP EUROPEAN HISTORY (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1Credit

This course is the study of the social, economic, cultural, intellectual, political and diplomatic history of Modern Europe and its place in the history of the world from the fall of Constantinople to the fall of the Berlin wall and the Soviet Union. The course will be taught at a level and rigor equivalent to that required of students in a college freshman or sophomore Modern European History course. Students will develop an understanding of the major periods, ideas, movements, trends, and themes that characterize European history from approximately 1450-the high Renaissance-to the present. Students develop the ability to analyze historical evidence and express understanding and analysis in writing. The course will prepare students for the College Board examination in European History. Textbook Required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP PSYCHOLOGY (WVS)

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: None 1Credit

This course is a survey of psychology that introduces students to the major topics of the field, the terminology and methodology of psychology, and the historical and current understanding of human behavior and thought-processes. Students learn to analyze human experiences like psychologists do and to apply what they have learned to the world around them. The focus of the course is to prepare students to take the Advanced Placement Psychology course administered by the College Board in the spring of each year. Textbook required

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP U. S. GOVERNMENT AND POLITICS (WVS)

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: US History (1700-Present) 1 Credit

This course will survey the complex subjects of U.S. Government and politics. We will analyze in some detail the processes and institutions (both formal and informal) through which the political system functions and policy decisions are made. This analysis will include the Constitutional structure of Government, participatory politics, the formal institutions of power, the extra constitutional influences on those institutions, and public polity and individual rights and liberties. Two Textbooks Required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP U.S. HISTORY (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

This college-level course explores the history of the United States from the first European explorations of the Americas to present day events and trends. Students examine political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. Textbook required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP WORLD HISTORY (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

AP World History covers the history of the world from 600 C.E. to the present with an introduction unit on the period before (covering around 8000 B.C.E to 600 C.E.). The course emphasizes "patterns of change" and the connections between the various world cultures throughout the time period being studied. Students will gain an understanding of the global experiences of humanity and be able to apply that knowledge to their growth and development as "world citizens". The class has two major goals: 1) to prepare students to be successful on the AP World History exam and 2) to provide students with an understanding on why the world developed the way it did. Textbook required.

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

Technology

TECHNOLOGY SURVEY

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

This course is designed to provide students basic knowledge related to technology with an emphasis on becoming smarter consumers and finding a career pathway that is both exciting and profitable. Students will learn how to safely use tools and equipment to build projects in a manufacturing unit. Industry accepted procedures will be used to maintain automobiles and boats in the transportation unit.

PRODUCTION SYSTEMS

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: Technology Education Survey 1 Credit

This course will focus on woodworking and will cover the steps taken in a basic industrial process. Included in the course will be selecting a product to be produced, drawing it, building necessary jigs and fixtures to produce it, and finally producing the product. The course will also require some problem solving and material calculations.

RESEARCH & DESIGN ENGINEERING

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: None 1 Credit

Creative problem-solving (*"This would work better if..."*) is the heart of R & D—Research and Design. Students will learn to sketch and use computer aided design software (CAD) to design and build working solutions. They will use woodworking and metalworking tools to construct prototypes. Each student will design and build a catapult.

BUILDING CONSTRUCTION

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

In this course students will be study the five basic areas of construction. These will include framing, dry walling, electricity, trim, and hardware. The students will develop the necessary skills that will allow them the skills to build and remodel a home. The units will be self paced and all five areas need to be completed before the end of the semester. This course is hands-on and project-based with the majority of work in the lab.

ELECTRONICS

OPEN TO: Grade 10-12 ELECTIVE
PREREQUISITES: None 1 Credit

The purpose of this course is to introduce students to basic principles of electric circuits and electronic devices. By means of an inquiry approach to learning, students are introduced to the topics of DC Circuits and AC Circuits, Ohm's Law, Circuit Component Recognition and Diagrams, Kirchoff's Voltage and Current Laws, Resistance, Capacitance, Inductors, Transformers, and Oscilloscope operation and use. Students are also introduced to robotics.

The second semester introduces students to the study and operation of digital electronics. Students examine the operation and theory of solid state devices such as diodes and transistors. Laboratory experiments are carried out to verify the theory. Digital electronics is introduced with the study of the operation of logic gates, and combination logic devices such as encoders and decoders. Students investigate the theory and operation of op-amps. Students are required to do a robotics project.

ENERGY AND TRANSPORTATION/HIGH MILEAGE VEHICLE

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course allows students the opportunity to use engineering skills to design and produce a high mileage vehicle from start to finish. Students will work as a collaborative team to produce a fuel efficient vehicle. Problem solving skills and higher level thinking skills will be developed. This course also includes the theory of operation, design, and maintenance of automobiles.

ENGINE FUNDAMENTALS & RECREATIONAL POWERSPORTS

OPEN TO: Grades 10-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course provides a broad overview of the operating principles of gasoline engines that power all-terrain vehicles (ATVS), personal watercraft (PWC), snowmobiles and boats. Students will learn basic theory of operation for 2-cycle and 4-cycle engines and will learn to disassemble, measure, recondition and reassemble engines. Students will also learn to be a smart consumer of recreational power-sports equipment as well as perform basic routine maintenance, and explore the impact technology has on the way people spend time outdoors. This is a hands-on, project-based course with the majority of class work in the lab.

APPENDIX A

Wisconsin Virtual School Course Offerings

(Go to www.wisconsinvirtualschool.org for course syllabus information.)

Computer

COMPUTER FUNDAMENTALS: MICROSOFT OFFICE (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

In this introductory course, students will become familiar with the basic principles of a personal computer including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as Microsoft Word, Excel, and PowerPoint as well as understand social and ethical issues around the Internet, information and security. This is a two semester course. In the first semester, the focus is on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware and operating system. In the second semester, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

DIGITAL PHOTOGRAPHY AND GRAPHIC DESIGN (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

In the digital photography and graphic design lessons, students begin by learning general photographic concepts. Then composition skills are added to photographs and image-editing techniques are practiced. Students learn how to use layers, crop images, color and lighting concepts, hue and saturation, and exposures and special effects. Graphic design, artistic elements, and software skills are taught while producing graphic images. The concept of design as a manner of visual communication is carried throughout. Students build a portfolio of work and explore the fields of photography, graphic arts, advertising and illustration.

DIGITAL VIDEO PRODUCTION (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

This course introduces students to all aspects of digital video, from story-boarding scenes and creating shot lists to editing a finished, professional-quality product. Throughout this project-based course, students will demonstrate mastery of the key learning objectives by recording, capturing and editing their own videos. This is a hands-on course that provides a solid foundation for further study in this exciting field. Required tool: Microsoft Windows Movie Maker; Any video camcorder capable of connecting to a computer (either through USB or Firewire).

GAME DESIGN (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

This course will introduce students to the basic skills necessary for game design. They will study the various games in the industry and analyze their approach in terms design and development. The student will explore the processes and art of making game elements like story, levels, sound, user interfaces, and levels. This analysis will include an orientation to the gaming market and innovative techniques' impact on it. Finally, the student will merge all these elements into a functional prototype showing their understanding of the game design process. to a computer (either through USB or Firewire).

PROGRAMMING: JAVA.NET (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	Computer Programming 1 Basic Computer Fundamentals	1/2 Credit

This introductory-level course presents the understanding of JAVA and how to build a stand-alone application (such as a countdown clock or leap year indicator). This course is designed for first-time learners who have very little programming background except that introduced in Programming I: VB.NET. The student will also learn the techniques of JAVA, how JAVA can be used in cross-platform programming, and the robustness of the Java program. At the end of the course student will be able to write basic programs using Java and could pursue further instruction any programming language. Required tool: JDK 1.5 (or higher version)

PROGRAMMING: VB.NET (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	None	1/2 Credit

This course presents basic programming and teaches the essential concepts of VisualBasic.net (VB.NET). As an introduction to VB.NET, students will see the basic uses of the programming language, its similarities to the English language (and others), and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This is an introductory course that could lead to careers such as software engineer, developer, or game designer. The course participants will also complete a series of hands-on projects covering built in data types, operators, control structures, classes, and objects.

Electives

ART APPRECIATION (WVS)

OPEN TO:	Grades 9-12	ELECTIVE
PREREQUISITE:	None	1/2 Credit

This one semester course introduces the major themes, influences and personalities that shaped most of western cultural heritage through art. The periods studied include Ancient, Classical, Renaissance, Baroque, Modern and Contemporary. After completing the course, students will be able to analyze art with the eyes of an art historian; compare and contrast the sculpture of ancient peoples, considering its purpose, size and degree of realism; recognize and describe the major characteristics of the various 'isms' of Europe and America; identify examples of the outstanding art of Asia, India, Africa and pre-Columbian American and discuss their purposes; and describe how the study of art has influenced personal perceptions of the world and its art.

CAREER PLANNING (WVS)

OPEN TO:	Grade 9-12	ELECTIVE
PREREQUISITE:	None	1/2 Credit

In this comprehensive course, students learn how self-knowledge contributes to career success and how goal setting and decision making are integral to career planning. They also investigate different careers, master job-finding techniques and learn how to make the transition from school to work. Students will determine their values, skills and interests and understanding of career planning. Set goals, understand their benefits and avoid obstacles to attaining them, use research tools such as the Holland Self-Directed Search, the Occupational Outlook Handbook and computerized career planning systems, explore careers first –hand by conducting interviews and job shadowing and conduct job searches by exploring job banks, creating a cover letter and resume and researching job interview techniques.

LIFE SKILLS (WVS)

OPEN TO: Grade 9-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

Life Skills is designed to increase student knowledge and ability in skills necessary for everyday living. The course emphasizes defining personal values, goal-setting and planning, making decisions and solving problems, evaluating information and dealing with media and peer pressure, communication and relationships, decision making, wellness and personal safety, and contributing to your community.

NUTRITION AND WELLNESS WVS

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

This one semester course will introduce the student to an overview of good nutrition principles that are needed for human physical & mental wellness. Discussion of digestion, basic nutrients, weight management, sports & fitness, and life-span nutrition is included. Application to today's food and eating trends, plus learning to assess for reliable nutrition information is emphasized.

MUSIC APPRECIATION (WVS)

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This one-semester course introduces students to the elements, instrumentation, and historical periods of music. Students will learn the significance of surroundings and time periods and how they both influenced the music of the day. Students will listen to and evaluate several types of music, and will be assessed through projects, presentations, and exams on the knowledge and understanding of music.

English

CREATIVE WRITING (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

In this course, students will explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. Students will study examples of writing through classic and contemporary selections and will apply that knowledge and understanding to their writing. In addition, students will develop an intimate understanding of the writing process and its application to various projects. As students move through the course, they will understand and evaluate the writings of others, and be able to apply the evaluation criteria to their own writing. By the end of the course, students will have created a well-developed portfolio of finished written works. Learning activities include reading; listening; discussing; writing; multiple choice games; self-check activities; and reflective journals. The unit structure includes the broader idea of the unit as defined by the main heading. Units will include a combination of activities and will culminate in a submittal of the finished unit project. Unit projects will be developed in phases throughout each section of the unit. Unit lessons and performance tasks have been scaffolded carefully to help students achieve deeper levels of understanding.

GRAMMAR AND COMPOSITION (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

This course is designed for the student who needs extra help in mastering communication skills and fundamental principles of grammar and usage. The course focuses on teaching the composition concepts in the 6 + 1 Traits of Writing pioneered by the Northwest Regional Education Laboratories. Grammar is taught as a tool for improving communication rather than as a pure focus of study. Oral Communication and research skills are included. Although there is some literature study in the course, it is not the focus. The course emphasizes diagnosis of student writing needs and targeting individualized needs for improvement. No required text.

Foreign Language

CHINESE 1 (MANDARIN) (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (simplified). In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. This course is aligned to national Foreign Language standards. Students are introduced to the simplified Chinese writing system in this class. No text required.

CHINESE 2 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: Chinese 1 1 Credit

This course is a continuation of a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Daily Routine, Animals, Hobbies, The Body and Descriptions), students learn to express themselves using an ever increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards. No text required.

GERMAN 1 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1 Credit

First year German students start out by learning introductions, greetings, and the days of the week, words and phrases to find out information, vowel pronunciation, and how to use articles, plurals, and noun/adjective agreement with gender. From there, they begin to incorporate their new vocabulary through rhythm and cadence, recognize sentence patterns and build comprehension skills, increase their fluency, practice counting and simple math, learn to form plurals with greater accuracy, use infinite verbs, and form question statements.

GERMAN 2 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: German 1 1 Credit

The second year of German expands students' written and spoken fluency, placing a continued emphasis on reading, writing, listening, and speaking. Students learn to understand and use small talk, and they practice using new vocabulary in conversations and stories. They master object pronouns with finite and infinite verbs, learn geography vocabulary, study pronouns and past and present tenses, identify and describe objects, use genitive plural and singular forms, expand their cultural knowledge, and build fluency through repetition.

GERMAN 3 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	German 2	1 Credit

German III has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme.

GERMAN 4 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	German 3	1 Credit

This fourth year of German builds upon the first three levels. Students will continue to sharpen their reading, writing, and listening skills as well as learn skills to think critically and express themselves on topics relevant to German culture. This fourth level will include authentic texts, current culture, and literature from Germany, Austria, and Switzerland. Every two units will be a special focus on a particular region or city from these areas; these will include such things as culture, tourism, and current events. Students will learn vocabulary, grammar skills, and cultural competency to express themselves on a variety of topics in German. Cultural topics include: contemporary and classical music, expressing opinion, German history, transportation, family, weekend travel, free time activities, youth and technology, multiculturalism, holidays, education, career, and travel in a foreign country. This course is aligned to the national ACTFL Foreign Language standards and provides a way to focus on the five aspects of foreign language instruction: communication, culture, connections, comparisons, and community. These are the “Five C’s of the Foreign Language Education” as outlined in *Standards for Foreign Language Learning: Preparing for the 21st Century*. No text required.

JAPANESE 1 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	None	1 Credit

Japanese I is a two semester course has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, selfchecks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme. No text required

JAPANESE 2 (WVS)

OPEN TO:	Grades 9 - 12	Elective
PREREQUISITE:	Japanese 1	1 Credit

Japanese II is a two semester course that has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, selfchecks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme. No text required.

LATIN 1 (WVS)

OPEN TO: Grades 9-12 ELECTIVE
PREREQUISITE: None 1 Credit

This course introduces students to fundamental vocabulary and basic grammatical concepts of the Latin language. Grammar and vocabulary are taught with the latest advances in interactive multimedia technology.

In addition to grammar and translation assignments, this two-semester course includes seven (7) mini-projects on Roman Life, four (4) mini-projects on Greek and Roman mythology, and four (4) Word Studies. Students will also participate in class discussions and work in groups on projects related to archaeological excavations Roman towns, including Pompeii, Herculaneum, and Zeugma, and Roman inventions.

LATIN 2 (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: Latin 1 1 Credit

Latin 2 is the continuation of Latin grammar and a deeper study of Roman Mythology and history. The grammar in Latin 2 reviews topics from Latin 1 with expanding use of declensions, adjectives, adverbs, and cases. These skills will be used to translate longer Latin texts to English that require more knowledge of grammar rather than just vocabulary recall. The culture part of the course is an in-depth study of The Odyssey, the underworld, the rulers and kings of Rome, and entertainment.

WORLD LANGUAGE SURVEY (WVS)

OPEN TO: Grades 9 - 12 Elective
PREREQUISITE: None 1/2 Credit

In this world language course, students will be introduced to 6 different languages within 18 weeks. The languages include Spanish, French, German, Latin, Chinese and Japanese. Each language will be taught in a period of 3 weeks. This multilingual course is designed to give students an opportunity to gain understanding of a language that they might want to further study in the future. The course takes a multi-perspective approach for teaching the culture of the people that speak the language, along with fundamental communication skills in the target language. Activities that engage students and make language learning exciting and fun will be incorporated to build acquisition. The language will be taught using the communicative method which combines listening, speaking, reading and writing in the target language with the use of multimedia resources

Mathematics

CALCULUS (WVS) (1)

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: Trigonometry/Pre-Calculus 1 Credit

This course introduces limits, differentiation, and integration of functions. Students will find and evaluate finite and infinite limits graphically, numerically, and analytically. They will find derivatives using a variety of methods including The Chain Rule and Implicit Differentiation. They will use the First Derivative Test and The Second Derivative Test to analyze and sketch functions. Subsequently, students will find antiderivatives using a variety of methods including substitution. They will evaluate integrals using a variety of methods including numerical integration. They will understand and apply Riemann sums, definite integrals, and The Fundamental Theorem of Calculus. In particular, they will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. They will solve simple differential equations that can be solved by separation of variables and use them to solve applied problems. They will use integration to determine the area between two curves, volume, and surface area. Finally, they will apply integration to determine work, center of mass, and fluid force.

The use of a graphing calculator is considered an integral part of the course and students will use a graphing calculator throughout this course.

CONSUMER MATH (WVS) (1)

OPEN TO: Grade 11-12
PREREQUISITE: None

ELECTIVE
1 Credit

This is comprehensive review and study of arithmetic skills that apply to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Practical applications in finance, taxes, budgeting, banking and home ownership are provided.

INTEGRATED MATH (WVS)

OPEN TO: Grade 11-12
PREREQUISITE: None

ELECTIVE
1 Credit

The purpose of this course is to provide students with an overview of the many mathematical disciplines. Topics included are number sense, geometry, algebra, measurement, probability & statistics, and data interpretation. Assessments within the course include multiple-choice, short-answer, or extended response questions. Also included in this course are self-check quizzes, audio tutorials, web quests and interactive games.

Students will build mathematical skills that allow students to solve problems and reason logically. Students will be able to communicate their understanding by organizing, clarifying, and refining mathematical information for a given purpose; students will use everyday and mathematical language and notation in appropriate and efficient forms to clearly express or represent complex ideas and information.

Science

EARTH SCIENCE (WVS)

OPEN TO: Grade 11 and 12
PREREQUISITE: None

ELECTIVE
1 Credit

This introductory two semester Earth Science course incorporates the body of knowledge and facts accumulated from people's observations of the Earth around them and the skies above them. This observed information of the earth has evolved over centuries into the branch of science known as earth science. Earth science has several different branches of study: the solid earth (geology); the earth's waters (hydrology and oceanography); the earth's atmosphere (meteorology); and the universe beyond earth (astronomy). Using careful observation and experimentation, students will learn to effectively analyze and evaluate the earth's natural phenomena and their causes, as well as, its relationship in the universe by focusing on the four major areas of study.

Social Studies

ECONOMICS (WVS)

OPEN TO: Grades 9 - 12
PREREQUISITE: None

Elective
1/2 Credit

Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production; land, labor, capital, and entrepreneurship are made. Key topics covered include: law of supply and demand; saving, borrowing, and spending; the Federal Reserve System and the money supply; and the role of government in an open market economy.

APPENDIX B

Wisconsin Virtual School

AP Course Offerings

(Go to www.wisconsinvirtualschool.org for course syllabus information.)

*All courses are year-long, divided into two semesters, unless marked with a * (those are 1 semester courses). Students must register for each semester separately, during the term they plan to take that course.*

Students choosing to take Advanced Placement courses should have a 3.5 cumulative grade point average or better, and must excel in the academic area.

AP Exam Review

Wisconsin Virtual School (WVS) and its online partner, Aventa Learning, offer FREE Exam Reviews in 16 subjects. The Aventa Learning Advanced Placement Review provides quality review strategies and resources to help AP students earn their highest possible score on the Advanced Placement exam. Students in 16 AP classes use the Aventa Learning exam review to focus their preparation, identify areas of weakness, and complete their final preparations.

Art

AP ART HISTORY (WVS)

OPEN TO:	Grades 11 – 12	ELECTIVE
PREREQUISITE:	None	1 Credit

This course is designed to foster in students an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. In addition to visual analysis, this course emphasizes understanding works in context, considering such issues as patronage, gender and the functions and effects of works of art. Prior art training is not a prerequisite nor does the course cater exclusively to future Art History majors. This course was designed to meet the requirements of the Advanced Placement Art History requirements precisely.

Business

*AP MACROECONOMICS (WVS)

OPEN TO:	Grade 11-12	ELECTIVE
PREREQUISITE:	None	1/2 Credit

Macroeconomics is an emphasis on how the economic system works as a whole. Students study how the economy is measured by using concepts such as gross domestic product (GDP) and other indicators. They examine concepts such as inflation, unemployment, world trade patterns, and the role of the Federal Reserve Bank. Students engage in decision-making processes to create an environment where high employment and a higher standard of living are achievable by using the economic tools of fiscal and monetary policy. This course prepares students for the AP Exam in Macroeconomics. Textbook and workbook required.

***AP MICROECONOMICS (WVS)**

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1/2 Credit

Microeconomics emphasizes how individuals make choices with limited resources. Students will examine concepts such as supply and demand, factors of production, roles of labor and management, the relationship between the environment and the economy, and the impact of the government on individual decision making processes. Students study the stock market as an investment option and trace various stocks through the semester using the Wall Street Journal and the Internet as resources. This course prepares students for the AP Exam in Microeconomics. Textbook and student workbook required.

Computer

AP COMPUTER SCIENCE A (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

This advanced course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first semester college-level course in Computer Science. It also includes the study of data structures, design, and abstraction, but these topics are not covered to the extent that they are in Computer Science AB.

English

AP ENGLISH LANGUAGE (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

This advanced course focuses on reading and analyzing non-fiction prose, with an emphasis on philosophy. Written assignments focus on philosophical topics, which include ethics, knowledge and thought, the problem of truth, causality, metaphysics, political philosophy, and aesthetics.

AP ENGLISH LITERATURE AND COMPOSITION (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

In this advanced placement course, students learn to read and comprehend some of the finest poetry, plays, novels, short stories, and essays written at various times in various cultures, with an emphasis on literature originally written in English. Through reading and writing, students 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 response from readers. This course prepares students for the AP Literature and Composition exam.

Foreign Language

AP FRENCH LANGUAGE (WVS)

OPEN TO: Grades 12 ELECTIVE
PREREQUISITE: French 4/5 with 3.5 grade average 1 Credit

AP French Language students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write complicated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP French Language prepares students for the AP Exam and for further study of French language, culture, and literature. The course does not use a specific text. Rather, a variety of poems, short stories, essays, and plays are provided within the course. Students must have a microphone to submit speaking assignments.

AP SPANISH LANGUAGE (WVS)

OPEN TO: Grades 12 ELECTIVE
PREREQUISITE: Spanish 4/5 with 3.5 grade average 1 Credit

AP Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, the two-semester AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature. The course does not use a specific text, however a variety of poems, short stories, essays

Math

AP CALCULUS AB (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Trigonometry/Pre-Calculus 1 Credit

This Advanced Placement course introduces limits, differentiation, and integration of functions. Students will find and evaluate finite and infinite limits graphically, numerically, and analytically. They will find derivatives using a variety of methods including The Chain Rule and Implicit Differentiation. They will use the First Derivative Test and The Second Derivative Test to analyze and sketch functions.

Subsequently, students will find antiderivatives using a variety of methods including substitution. They will evaluate integrals using a variety of methods including numerical integration. They will understand and apply Riemann sums, definite integrals, and The Fundamental Theorem of Calculus. In particular, they will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. They will solve simple differential equations that can be solved by separation of variables and use them to solve applied problems. They will use integration to determine the area between two curves and the volume of solids. TI 83 Plus Calculator required. Optional text

AP CALCULUS BC (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Advanced Algebra 1 Credit

This is a college level course covering derivatives, integrals, limits, approximation, applications and modeling, and sequences and series. Knowledge of algebra, geometry, trigonometry, analytic geometry, and elementary functions required. TI 83 Plus Calculator required. Optional text

AP STATISTICS (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: Advanced Algebra 1 Credit

AP Statistics data analysis is dependent on the use of technology. Students should have access to computers that include software capable of doing data analysis. Students will be required to interpret output generated by statistical software programs. Students are not expected to learn how to use various statistical programs. In addition one of the following Texas Instruments calculators is required, TI-83, TI-83+, TI-84, TI-84+, or a TI 89. The TI-83+ is the most popular calculator for AP Statistics. In most cases the calculator is sufficient but the fundamental tool of data analysis is the computer. Textbook Required.

Science

AP BIOLOGY (WVS)

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: Biology, Chemistry 1 Credit

This course is a comprehensive analysis of general biology that includes biochemistry, molecular biology, genetics, mechanisms of evolution, evolutionary history of biological diversity, plant and animal form and function, and ecology. The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors or pre-medical students their first year. The textbook used, the range and depth of topics covered, discussion topics and kinds of labs done in this course are equivalent to those taking this course in college. College Board guidelines are followed in determining the course. Textbook Required. Lab kits are optional.

AP CHEMISTRY (WVS)

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: Chemistry 1 Credit

Advanced Placement Chemistry is designed to duplicate an equivalent full-year introductory college course covering all aspects of general Chemistry. Students will learn fundamental analytical skills to logically assess chemical problems proficiently. Through fascinating and elaborative lessons, students will develop the skills necessary to arrive at conclusions based on informed judgment and present evidence in clear and persuasive essays. Textbook Required; Lab kits are optional.

***AP ENVIRONMENTAL SCIENCE (WVS)**

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: Biology, Chemistry, Algebra 1/2 Credit

This course is designed to acquaint students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the interrelationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading to environmental degradation and pollution. The course consists of six chapters covering the following topics: Earth's Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes and Environment and Society. Chapters are divided into several subsections, each of which contains text, animations, laboratory simulations and video presentations by experts. Textbook Required.

AP PHYSICS B (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: Algebra 2 1 Credit
Physics Recommended

AP Physics is a yearlong introduction to the algebra-based major areas of physics – mechanics, fluids, waves, optics, electricity, magnetism and modern physics (atomic and nuclear). Students learn to think like scientists: making predictions based on observations, writing hypothesis, designing and completing experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of physics to their everyday experiences and current events and issues in science and engineering. The course provides opportunities for guided inquiry and student-centered learning to foster critical thinking skills. Textbook required Lab kits are optional.

Social Studies

AP EUROPEAN HISTORY (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1Credit

This course is the study of the social, economic, cultural, intellectual, political and diplomatic history of Modern Europe and its place in the history of the world from the fall of Constantinople to the fall of the Berlin wall and the Soviet Union. The course will be taught at a level and rigor equivalent to that required of students in a college freshman or sophomore Modern European History course. Students will develop an understanding of the major periods, ideas, movements, trends, and themes that characterize European history from approximately 1450-the high Renaissance-to the present. Students develop the ability to analyze historical evidence and express understanding and analysis in writing. The course will prepare students for the College Board examination in European History. Textbook Required.

***AP PSYCHOLOGY (WVS)**

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: None 1/2 Credit

This course is a survey of psychology that introduces students to the major topics of the field, the terminology and methodology of psychology, and the historical and current understanding of human behavior and thought-processes. Students learn to analyze human experiences like psychologists do and to apply what they have learned to the world around them. The focus of the course is to prepare students to take the Advanced Placement Psychology course administered by the College Board in the spring of each year. Textbook required

***AP U. S. GOVERNMENT AND POLITICS (WVS)**

OPEN TO: Grade 12 ELECTIVE
PREREQUISITE: US History (1700-Present) 1/2 Credit

This course will survey the complex subjects of U.S. Government and politics. We will analyze in some detail the processes and institutions (both formal and informal) through which the political system functions and policy decisions are made. This analysis will include the Constitutional structure of Government, participatory politics, the formal institutions of power, the extra constitutional influences on those institutions, and public polity and individual rights and liberties. Two Textbooks Required.

AP U.S. HISTORY (WVS)

OPEN TO: Grades 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

This college-level course explores the history of the United States from the first European explorations of the Americas to present day events and trends. Students examine political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. Textbook required.

AP WORLD HISTORY (WVS)

OPEN TO: Grade 11-12 ELECTIVE
PREREQUISITE: None 1 Credit

AP World History covers the history of the world from 600 C.E. to the present with an introduction unit on the period before (covering around 8000 B.C.E to 600 C.E.). The course emphasizes "patterns of change" and the connections between the various world cultures throughout the time period being studied. Students will gain an understanding of the global experiences of humanity and be able to apply that knowledge to their growth and development as "world citizens". The class has two major goals: 1) to prepare students to be successful on the AP World History exam and 2) to provide students with an understanding on why the world developed the way it did. Textbook required.

APPENDIX C

The International Baccalaureate Diploma Programme

Candidacy for 2010 - 2011

Green Lake High School is proud to announce its acceptance as an International Baccalaureate Diploma Programme granting high school. The International Baccalaureate (IB) Diploma Programme is a challenging two-year program offered in grades 11 and 12 which provides highly motivated, college-bound students with the opportunity to pursue a comprehensive curriculum that is internationally recognized for its excellence. It leads to a qualification that is widely recognized by the world's leading colleges and universities.

IB is well known to us for excellent preparations. Success in an IB programme correlates well with success at Harvard. We are always pleased to see the credentials of the IB Diploma Programme on the transcript.

--Marilyn McGrath Lewis, Director of Undergraduate Admission Harvard University

Send us prepared students à la IB...It is the "best" high school prep curriculum an American school can offer.

-- Marilee Jones, Director of Undergraduate Admission, Massachusetts Institute of Technology

Students seeking the finest [high school] preparation available for an American college should consider the International Baccalaureate. The IB offers an integrated curriculum that provides students with the skill needed to be world-class scholars and an educational philosophy that prepares them to be first-class citizens. I do not know of a more comprehensive and appropriate learning model.

— Jim Crowder, Director of Admissions, Macalester College

The goal of IB is to provide students with opportunities that will enable them to make wise choices and be successful in the global community. The program focuses on teaching students critical thinking and the importance of actively participating in their community. Course requirements for the IB Programme are developed to meet entrance requirements of the most respected universities around the world and include advanced courses in literature, English, second languages, history, sciences, mathematics, and fine arts.

Students in grade 10 in the 2010-2011 school year, will be invited to apply for the IB program before and at the same time they register for their 2010-2011 classes.

Why Participate in the International Baccalaureate Diploma Programme?

- IB encourages students to set and achieve ambitious goals.
- IB enables students to compete effectively in an international arena.
- IB provides a challenging curriculum to prepare students for success at prestigious universities.
- IB presents a course of study that allows students to apply their knowledge to real-life situations.
- IB facilitates the acquisition of time management and organizational skills.
- IB fosters active participation in community service.

Profile of an IB Diploma Programme Graduate

- Highly motivated
- Actively enjoys learning
- Well-rounded
- Communicates effectively
- Committed to community service
- College-bound

The IB Diploma

To earn an IB diploma, a student must successfully complete:

- Six course-specific examinations
- Theory of Knowledge course (TOK)
IB teaches students how to learn, analyze, think critically and present rational arguments.
- Creativity, Action, Service (CAS)
IB students must complete approximately 150 hours of creativity, action and service in their community.
- Extended Essay
IB students must write a 4,000 word research-based essay on a subject of his/her choice.

The IB Certificate

Students who wish to take one or more IB courses but not attempt an IB Diploma may do so as long as the prerequisite courses have been completed.

Open Admission

Admission to the IB Diploma Programme is open to all students who successfully complete the following courses by the end of 10th grade:

- English: English 9, English 10
- Foreign Language: Spanish 2 or French 2
- History: US History, American Government, World History 1A
- Science: Biology and Chemistry
- Math: Algebra/Geom/Stat or Algebra/Geometry/Pre-Calculus

How are students assessed?

At the end of the two-year programme, students are assessed both internally and externally in ways that measure individual performance against stated objectives for each subject.

Internal Assessment

In nearly all subjects at least some of the assessment is carried out internally by teachers, who mark individual pieces of work produced as part of a course of study. Examples include oral exercises in language subjects, projects, student portfolios, class presentations, practical laboratory work, mathematical investigations and artistic performances.

External Assessment

Some assessment tasks are conducted and overseen by teachers without the restrictions of examination conditions, but are then marked externally by examiners. Examples include world literature assignments for language A1, written tasks for language A2, essays for theory of knowledge and extended essays.

Because of the greater degree of objectivity and reliability provided by the standard examination environment, externally marked examinations form the greatest share of the assessment for each subject.

Grading System

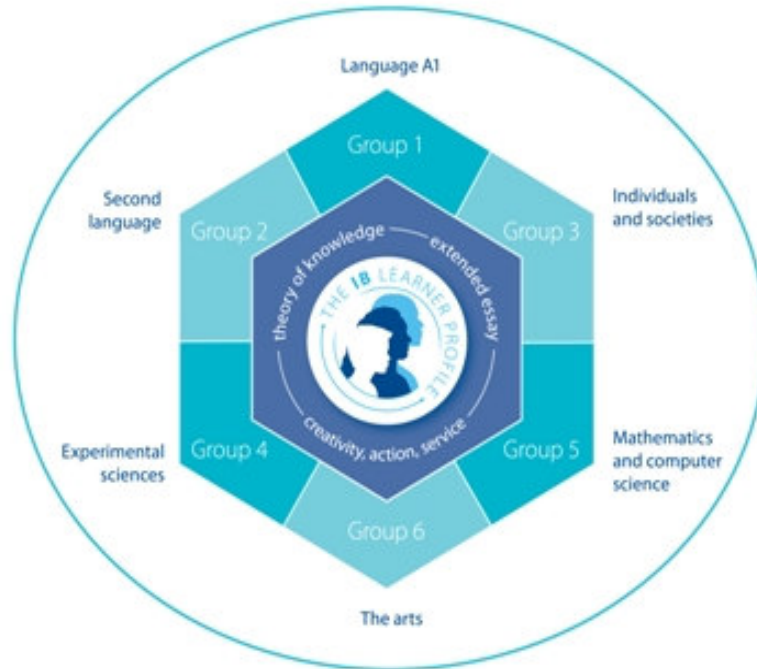
The grading system is criterion based (results are determined by performance against set standards, not by each student's position in the overall rank order); validity, reliability and fairness are the watchwords of the Diploma Programme's assessment strategy.

DIPLOMA PROGRAM COURSES

Programme Model

The International Baccalaureate Diploma Programme is a rigorous pre-university course of studies that meets the needs of highly motivated secondary school students.

The curriculum is displayed in the shape of a hexagon with six academic areas surrounding the core. Subjects are studied concurrently and students are exposed to the two great traditions of learning: the humanities and the sciences.



INTERNATIONAL BACCALAUREATE COURSES

Group 1 Language A1

English SL, HL

Group 2 Second Language

French SL, HL

Spanish SL, HL

Group 3 Individuals and Societies

History SL, HL

Group 4 Experimental Sciences

Biology SL, HL

Environmental Systems & Society, SL

Group 5 Mathematics/Computer Science

Math Studies SL

Math SL

ITGS: Information Technology in a Global Society SL

Group 6 The Arts

Music SL

Visual Arts SL/HL

Core Elements

TOK (Theory of Knowledge)

EE (Extended Essay)

CAS (Creativity, Action, Service)

ENGLISH SL, HL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

English 9, English 10

1 or 2 Credits

English SL or HL is designed for students with a high level of competence and can be studied at either higher level or standard level. The course provides students with the opportunity to study language, texts and culture, and to develop their analytical skills.

Students become familiar with a wide range of vocabulary and complex grammatical structures. At the end of the course they are expected to understand and use the language accurately. Language development and refinement include the analysis and use of language appropriate in particular contexts.

Students are exposed to a wide range of texts that they encounter in their everyday lives (for example, short stories, speeches, cartoons, advertisements and news reports). They learn how to compare and contrast how the language is used in different texts, and how language and style affect the presentation of theme and topic. Once they have become familiar with the style used in different types of texts, students are required to write tasks that relate to the course content in an appropriate register and style.

Within the framework of the cultural options (language and culture, media and culture, future issues, global issues and social issues), students study particular topics such as bilingualism, advertisements and racism. The purpose of this study is to become more familiar with the language and its associated culture(s). Different types of texts, both literary and non-literary, can be read as part of this study.

In the literary options students consider how writers use language and style to present ideas, themes, feelings and attitudes. They also explore what aspects of a literary text are specific to the language and its associated culture(s) and what aspects cut across cultural and linguistic boundaries. It is this exploration of the specific and the universal, in the literary as well as the cultural options, that links the course to the broader aims of the IBO: to provide an education that enriches the international awareness of students and develops in them the attitudes of tolerance, empathy and a genuine respect for perspectives different from their own.

FRENCH SL, HL

SPANISH SL, HL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

French 1, French 2

1 or 2 Credits

Spanish 1, Spanish 2

The French/Spanish program is primarily a pre-university course in literature. It is aimed at students who intend to pursue literature, or related studies, at university, as well as at students whose formal study of literature will not continue beyond this level. The former would normally follow the Higher Level (HL) program and the latter the Standard Level (SL).

Literature is concerned with our conceptions, interpretations and experiences of the world. The study of literature, therefore, can be seen as a study of all the complex pursuits, anxieties, joys and fears that human beings are exposed to in the daily business of living. It enables an exploration of one of the more enduring fields of human creativity and artistic ingenuity, and provides immense opportunities for encouraging independent, original, critical and clear thinking. It also promotes a healthy respect for the imagination and a perceptive approach to the understanding and interpretation of literary works. The discussion of literature is itself an art which requires the clear expression of ideas both orally and in writing.

The French/Spanish program encourages students to see literary works as products of art and their authors as craftsmen whose methods of production can be analyzed in a variety of ways and on a number of levels. This is achieved through the emphasis placed on exploring the means used by different authors to convey their subjects in the works studied. It is further reinforced by the comparative framework emphasized for the study of these works in all parts of the program. The flexibility of the program allows teachers to choose challenging works from their own sources to suit the particular needs and interests of their students. It also allows teachers to participate significantly, through the internally assessed oral component, in the overall assessment of their students.

HISTORY SL, HL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

US History, World History

1 or 2 Credits

History is more than the study of the past. It is the process of recording, reconstructing and interpreting the past through the investigation of a variety of sources. It is a discipline that gives people an understanding of themselves and others in relation to the world, both past and present.

Students of history learn how the discipline works. It is an exploratory subject that poses questions without providing definitive answers. In order to understand the past, students must engage with it both through exposure to primary historical sources and through the work of historians. Historical study involves both selection and interpretation of data and critical evaluation of it. Students of history should appreciate the relative nature of historical knowledge and understanding, as each generation reflects its own world and preoccupations and as more evidence emerges. A study of history both requires and develops an individual's understanding of, and empathy for, people living in other periods and contexts.

Diploma Programme history consists of a standard level (SL) and higher level (HL) core syllabus comprising an in-depth study of an individual prescribed subject and the selection of two topics from the main developments in 20th century world history. At HL students select from a range of optional syllabuses that cover a wider time span encouraging in-depth study.

The Diploma Programme history course provides both structure and flexibility, fostering an understanding of major historical events in a global context. It requires students to make comparisons between similar and dissimilar solutions to common human situations, whether political, economic or social. It invites comparisons between, but not judgments of, different cultures, political systems and national traditions. The content of the history course is intrinsically interesting and it is hoped that many students who follow it will become fascinated with the discipline, developing a lasting interest in it, whether or not they continue to study it formally.

BIOLOGY SL, HL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

Biology, Chemistry

1 or 2 Credits

Biologists have accumulated huge amounts of information about living organisms, and it would be easy to confuse students by teaching large numbers of seemingly unrelated facts. In the Diploma Programme biology course, students will acquire a limited body of facts and, at the same time, develop a broad, general understanding of the principles of the subject.

Although the Diploma Programme biology course at standard level (SL) and higher level (HL) has been written as a series of discrete statements (for assessment purposes), there are four basic biological concepts that run throughout:

- **Structure and Function:** This relationship is probably one of the most important in a study of biology and operates at all levels of complexity. Students should appreciate that structures permit some functions while, at the same time, limiting others.
- **Universality and Diversity:** At the factual level, it soon becomes obvious to students that some molecules (for example, enzymes, amino acids, nucleic acids and ATP) are ubiquitous, and so are processes and structures. However, these universal features exist in a biological world of enormous diversity. Species exist in a range of habitats and show adaptations that relate structure to function. At another level, students can grasp the idea of a living world in which universality means that a diverse range of organisms (including ourselves) are connected and interdependent.
- **Equilibrium within Systems:** Checks and balances exist both within living organisms and within ecosystems. The state of dynamic equilibrium is essential for the continuity of life.
- **Evolution:** The concept of evolution draws together the other themes. It can be regarded as change leading to diversity within constraints, and this leads to adaptations of structure and function. These four concepts serve as themes that unify the various topics that make up the three sections of the course: the core, the additional higher level (AHL) material and the options.

ENVIRONMENTAL SYSTEMS AND SOCIETY SL

OPEN TO:	Grades 11 - 12	ELECTIVE
PREREQUISITE:	Biology, Chemistry US History, World History	1 Credit

As a transdisciplinary subject, Environmental Systems and Societies is designed to combine the techniques and knowledge associated with group 4 (the experimental sciences) with those associated with group 3 (individuals and societies). By choosing to study a transdisciplinary course such as this as part of the diploma, students are able to satisfy the requirements for both groups 3 and 4 of the hexagon, thus allowing them to choose another subject from any hexagon group (including another group 3 or 4 subject). Transdisciplinary subjects therefore introduce more flexibility into the IB Diploma Programme.

The prime intent of this course is to provide students with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. The approach is conducive to students evaluating the scientific, ethical and socio-political aspects of issues.

MATH STUDIES SL

OPEN TO:	Grades 11 - 12	ELECTIVE
PREREQUISITE:	Algebra/Geometry 1 OR Algebra/Geometry/Statistics OR Algebra/Geometry/Pre-Calculus	1 Credit

The nature of mathematics can be summarized in a number of ways: for example, it can be seen as a well-defined body of knowledge, as an abstract system of ideas, or as a useful tool. For many people it is probably a combination of these, but there is no doubt that mathematical knowledge provides an important key to understanding the world in which we live. Mathematics can enter our lives in a number of ways: we buy produce in the market, consult a timetable, read a newspaper, time a process or estimate a length. Mathematics also extends into our chosen profession: artists need to learn about perspective; musicians need to appreciate the mathematical relationships within and between different rhythms; economists need to recognize trends in financial dealings; and engineers need to take account of stress patterns in physical materials. Scientists view mathematics as a language that is central to our understanding of events that occur in the natural world. Some people enjoy the challenges offered by the logical methods of mathematics and the adventure in reason that mathematical proof has to offer. Others appreciate mathematics as an aesthetic experience or even as a cornerstone of philosophy. This prevalence of mathematics in our lives provides a clear and sufficient rationale for making the study of this subject compulsory within the DP.

This course 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 taking this course need to be equipped with fundamental skills and a rudimentary knowledge of basic processes.

The course consists of the study of eight topics:

- Topic 1—Introduction to the graphic display calculator
- Topic 2—Number and algebra
- Topic 3—Sets, logic and probability
- Topic 4—Functions
- Topic 5—Geometry and trigonometry
- Topic 6—Statistics
- Topic 7—Introductory differential calculus
- Topic 8—Financial mathematics

MATH SL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

Algebra/Geometry/Statistics OR
Algebra/Geometry/Pre-Calculus

1 Credit

This course 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 majority of these students will expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology and business administration. The course focuses on introducing important mathematical concepts through the development of mathematical techniques. The intention is to introduce students to these concepts in a comprehensible and coherent way rather than insisting on mathematical rigor. Students should wherever possible apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context.

The internally assessed component, the portfolio, offers students a framework for developing independence in their mathematical learning by engaging in mathematical investigation and mathematical modeling. Students are provided with opportunities to take a considered approach to these activities and to explore different ways of approaching a problem. The portfolio also allows students to work without the time constraints of a written examination and to develop the skills they need for communicating mathematical ideas.

INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY (ITGS) SL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

None

1 Credit

ITGS is the study and evaluation of the impact of information technology (IT) on individuals and society. It explores the advantages and disadvantages of the use of digitized information at the local and global level. ITGS provides a framework for the student to make informed judgments and decisions about the use of IT within social contexts.

Although ITGS shares methods of critical investigation and analysis with other social sciences, it also considers ethical questions found in the study of philosophy. Students come into contact with IT on a daily basis because it is so pervasive in the world in which we live. This widespread use of IT inevitably raises important questions about social and ethical issues that shape our society today. ITGS offers an opportunity for a systematic study of these issues, whose range is such that they fall outside the scope of any other single discipline.

The nature of the subject is defined by the following fundamental ITGS terms:

- *Information Technology* is the acquisition, processing, storage, manipulation and dissemination of digital information by computing or telecommunications or a combination of both
- *Social impact* includes the economic, political, cultural, legal, environmental, ergonomic, health and psychological effects of IT on human life.
- *Ethical considerations* refer to the responsibility and accountability of those involved in the design, implementation and use of IT.
- *An information system* is a collection of people, information technologies, data, methods and policies organized to accomplish specific functions and solve specific problems.

MUSIC SL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

Concurrent Enrollment in Choir or Band 1 Credit

Music functions as a means of personal and communal identity and expression, and embodies the social and cultural values of individuals and communities. This scenario invites exciting exploration and sensitive study. Music, and all of its associations, may vary considerably from one musical culture to another, yet music may have similarities. Such richness offers a variety of ways to encounter and engage with a constantly changing world.

A vibrant musical education fosters curiosity and openness to both familiar and unfamiliar musical worlds. Through such a study of music, students learn to hear relationships of pitch in sound, pattern in rhythm and unfolding sonic structures. Through participating in the study of music, students are able to explore the similarities, differences and links in music from within their own culture and that of others across time. Informed and active musical engagement allows students to explore and discover relationships between lived human experience and specific sound combinations and technologies, thus understanding the world around us and the nature of humanity.

The Diploma Programme music course provides an appropriate foundation for further study in music at university level or in music career pathways. It also provides an enriching and valuable course of study for students who may pursue other careers. This course also provides all students with the opportunity to engage in the world of music as lifelong participants.

SL students must choose one of three options:

- creating (SLC)
- solo performing (SLS)
- group performing (SLG).

VISUAL ARTS SL, HL

OPEN TO:

Grades 11 - 12

ELECTIVE

PREREQUISITE:

None

1 Credit

New ways of expressing ideas helps to make the visual arts one of the most interesting and challenging areas of learning and experience. The processes of designing and making art requires a high level of cognitive activity that is both intellectual and affective. Engagement in the arts promotes a sense of identity and makes a unique contribution to the lifelong learning of each student. The study of visual arts provides students with the opportunity to develop a critical and intensely personal view of themselves in relation to the world.

The Diploma Programme visual arts course enables students to engage in both practical exploration and artistic production, and in independent contextual, visual and critical investigation. The course is designed to enable students to study visual arts in higher education and also welcomes those students who seek life enrichment through the visual arts.

Because of the nature of the subject, quality work in the visual arts can be produced by students at both HL and SL. The aims and assessment objectives are the same at both HL and SL. Through a variety of teaching approaches, all students are encouraged to develop their creative and critical abilities and to enhance their knowledge, appreciation and enjoyment of visual arts. The course content for HL and SL may be the same. However, due to the different amount of time available for each, students at HL have the opportunity to develop ideas and skills, to produce a larger body of work and work of greater depth. In order to reflect this, the assessment criteria are differentiated according.

The aims of the visual arts course at HL and SL are to enable students to:

- investigate past, present and emerging forms of visual arts and produce, appreciate and evaluate them.
- develop an understanding of visual arts from a local, national and international perspective.
- build confidence in responding visually and creatively to personal and cultural experiences.
- develop skills in, and sensitivity to, the creation of works that reflect active and individual involvement.
- take responsibility for the direction of personal learning through the acquisition of effective working practices.

TOK (THEORY OF KNOWLEDGE) (Scheduled Spring Junior Year and Fall Senior Year)

OPEN TO: Grades 11 - 12 REQUIRED FOR IB DIPLOMA
PREREQUISITE: None 1 Credit

The TOK course, a flagship element in the Diploma Programme, encourages critical thinking about knowledge itself to try to help young people make sense of what they encounter. Its core content utilizes questions such as these: *What counts as knowledge? How does it grow? What are its limits? Who owns knowledge? What is the value of knowledge? What are the implications of having, or not having, knowledge?*

What makes TOK unique, and distinctively different from standard academic disciplines, is its process. At the centre of the course is the student as knower. Students entering the Diploma Programme typically have 16 years of life experience and more than 10 years of formal education behind them. They have accumulated a vast amount of knowledge, beliefs and opinions from academic disciplines and their lives outside the classroom. In TOK they have the opportunity to step back from this relentless acquisition of new knowledge in order to consider knowledge issues. These include the questions already mentioned, viewed from the perspective of the student, but often begin from more basic ones: *What do I claim to know [about X]? Am I justified in doing so [how?]?* Such questions may initially seem abstract or theoretical, but TOK bring them into closer focus by taking into account students' interests, circumstances and outlooks.

TOK activities and discussions aim to help students discover and express their views on knowledge issues. The course encourages students to share ideas with others and to listen to and learn from what others think. In this process students' thinking and understanding of knowledge as a human construction are shaped, enriched and deepened. Connections may be made between knowledge encountered in different Diploma Programme subjects, in CAS experience or in extended essay research; distinctions between different kinds of knowledge may be clarified. Because the subject matter of the course is defined in terms of knowledge issues, there is no end to the valid questions that may arise in a TOK course. This guide consists mainly of questions that have been found to stimulate appropriate TOK inquiry.

EE (EXTENDED ESSAY)

OPEN TO: Grades 11 - 12 REQUIRED FOR IB DIPLOMA
PREREQUISITE: None 0 Credit

In the Diploma Programme, the extended essay is the prime example of a piece of work where the student has the opportunity to show knowledge, understanding and enthusiasm about a topic of his or her choice.

The extended essay, with a prescribed limit of 4,000 words, offers students the opportunity to investigate a topic of individual interest and acquaints them with the independent research and writing skills expected at tertiary level.

The aims of the extended essay are to provide students with the opportunity to:

- pursue independent research on a focused topic
- develop research and communication skills
- develop the skills of creative and critical thinking
- engage in a systematic process of research appropriate to the subject
- experience the excitement of intellectual discovery.

CAS (CREATIVITY, ACTION, SERVICE)

OPEN TO: Grades 11 - 12
PREREQUISITE: None

REQUIRED FOR IB DIPLOMA
0 Credit

Creativity, Action, Service (CAS) is at the heart of the Diploma Programme. It is one of the three essential elements in every student's Diploma Programme experience. It involves students in a range of activities alongside their academic studies throughout the Diploma Programme. The three strands of CAS, which are often interwoven with particular activities, are characterized as follows.

Creativity: Arts, and other experiences that involve creative thinking.

Action: Physical exertion contributing to a healthy lifestyle, complementing academic work elsewhere in the Diploma Programme.

Service: An unpaid and voluntary exchange that has a learning benefit for the student.

CAS enables students to enhance their personal and interpersonal development through experiential learning. At the same time, it provides an important counterbalance to the academic pressures of the rest of the Diploma Programme. The CAS program is both challenging and enjoyable, a personal journey of self-discovery. Each individual student has a different starting point, and therefore different goals and needs. For many, their CAS activities include experiences that are profound and life-changing. For student development to occur, CAS will involve:

- real, purposeful activities, with significant outcomes
- personal challenge—tasks must extend the student and be achievable in scope
- thoughtful consideration, such as planning, reviewing progress, reporting
- reflection on outcomes and personal learning.

Concurrency of learning is important in the Diploma Programme. Therefore, CAS activities should continue on a regular basis for as long as possible throughout the program, and certainly for at least 18 months. Successful completion of CAS is a requirement for the award of the IB diploma.

CAS activities begin in September of Junior year and continue through spring Senior year.