Skipper Log
Course Catalog

MINNETONKA HIGH SCHOOL 2017-18

Minnetonka High School

Serving students well and inspiring them to reach their highest levels of personal and academic achievement is the essence of our quest to be a world-class high school. We work hard to ensure that students remain engaged in school and learning and we strive to raise students' expectations regarding their own performance. Minnetonka students are encouraged and supported to explore a variety of opportunities and to access challenging coursework throughout their years at Minnetonka High School.

— Minnetonka School Board Vision

Dear MHS Students:

It is an exciting time of year, when each student—in consultation with parents, teachers and counselors—takes a new look at his or her dreams for the future, reflects on progress to date, and charts a course to realize personal and academic aspirations. The Skipper Log, our course catalog, will provide you with information regarding classes, registration and graduation requirements for planning a successful journey through high school.

On your expedition of lifelong learning, your dreams and goals will undoubtedly change, but charting a course and ensuring you are prepared is essential for success—however you may define it. At Minnetonka High School, we provide a varied and interesting curriculum for you to explore your interests, strengths and challenges and discover your passion to excel. We hope you will take full advantage of the outstanding educational opportunities available to you here. Challenge yourself to exceed your own expectations and earn a Minnetonka High School diploma that symbolizes academic and personal achievement of the highest order. You will find a Minnetonka diploma will open doors and expand opportunities as you continue to pursue your dreams long after high school.

We want each student at Minnetonka High School to feel personally connected to school and to have a successful high school experience. Please read the Skipper Log carefully, consider all the possibilities, and seek advice from your parents, your counselor and other members of the school staff. All of them can assist you in making and revising a four-year plan that sets you on a positive and meaningful course toward fulfilling your stated aspirations.

Enjoy this leg of your journey and have a great year!

Sincerely,

Jeff Erickson
Principal

NOTE: The most current version of the Skipper Log is available online at www.minnetonkaschools.org/SkipperLog.

Keep this Skipper Log for registration purposes each year until you graduate. Replacement print copies are available in the counseling office if needed.

PRINCIPAL
Mr. Jeff Erickson 952-401-5702

ASSISTANT PRINCIPAL
Mr. Robb Virgin 952-401-5705
Students whose last name begins with A-K

ASSISTANT PRINCIPAL
Dr. Amy Steiner 952-401-5703
Students whose last name begins with L-Z

ACTIVITIES DIRECTOR
Mr. Ted Schultz 952-401-5901

SCHOOL COUNSELORS

Brad Burnham	A-Bur	952-401-5816
Dan Marek	Bus-Em	952-401-5818
Theresa Exenberger	En-Han	952-401-5824
Katie Johnson	Hao-Ka	952-401-5819
Mary Beth Wiig	Kb-Mag	952-401-5821
Christina Taylor	Mah-Ol	952-401-5813
Farrah Jennings	Om-Sam	952-401-5817
Todd Poepard	San-Tam	952-401-5823
David Bierly	Tan-Z	952-401-5820

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STUDENT LIFE COORDINATOR
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Earning a Minnetonka diploma will mean more than completing a required course of study or fulfilling a certain number of hours and course credits. Our graduates will be the beneficiaries of years of excellence in teaching, experiential learning, abundant opportunities to excel in a variety of co-curricular activities, thousands of dollars of community investment, and high levels of community pride and support. A Minnetonka diploma will be a symbol of academic excellence and personal achievement of the highest order. — Minnetonka School Board Vision

Credits and Graduation Requirements

Course	Required Credits
English	4
Social Studies**	3.5
Mathematics**	3
Science**	3
Physical Education**	1
Health**	.5 (Embedded)
Electives	6.5
The Arts	1
Total credits required to earn a diploma	**22.5**

Semester Course = .5 credit

**Notes:

- Social Studies: Three credits must follow the grade 9-11 sequence; .5 credits must be in either the 12th grade Global Studies/Economics G course or an elective AP or IB course. Psychology G or Sociology G may be taken in addition to 3.5 but will not fulfill the graduation requirements for Social Studies.
- Math: Students must complete a Higher Algebra credit, its equivalent or higher level, as part of the three-credit requirement. (See "Mathematics" on page 63)
- Science: One credit must be a biology credit and one credit must be earned in Chemistry or Physics.
- P.E.: Students with a full course load all four years may be exempt from .5 credit of Physical Education (see "Physical Education" on page 78)
- Health Education is embedded into the educational program throughout the student's four years. Successful completion of the entire four-year health program is required for graduation (see "Health" on page 49). Students do not register for Health; all students are enrolled.

ARTS REQUIREMENT: Students may choose from the following courses to fulfill the State Art Standards and local graduation requirements.

DEPARTMENT	COURSE TITLES	
ART	AP Studio Art AP Art History, Tonka Online Ceramics I, II & III Commercial Art & Design Digital Drawing I, II & III Drawing I, II & III Drawing, Tonka Online Cartoon Illustration I, II & III Digital Imaging I & II	Introduction to Studio Art Painting I, II & III Photography I, II & III Digital Photography, Tonka Online Jewelry I, II & III Video Production I, II & III IB Visual Arts SL & HL VANTAGE #V104 or #V600
FAMILY & CONSUMER SCIENCE	Interior Design Fashion Merchandising & Design	Quilting and Applied Design
ENGLISH	Theater I & II Yearbook II	IB Literature and Performance SL
MUSIC *Completion of two consecutive semesters of music will fulfill the Arts required credit.*	Music Theory I or AP Music Theory Concert Band Symphonic Band Varsity Band Wind Ensemble Varsity Orchestra Chamber Orchestra String Orchestra Concert Orchestra	Symphony Orchestra Choristers Concert Choir Tonka Treble Choir Varsity Choir–Men's Varsity Choir–Women's IB Music SL American Popular Music, Tonka Online Music Technology
TECHNOLOGY EDUCATION	Introduction to Engineering Design Architectural Drafting and Design	Graphic Arts Airbrush I, II

Minnetonka High School 4-Year Plan

REQUIRED CLASSES					
Department	**9th Grade**		**10th Grade**		
	Semester 1	Semester 2	Semester 1	Semester 2	
English 4 Credits	English 9 or English 9 Honors or English 9 Honors Communications w/ AP Physics 1	English 9 or English 9 Honors or English 9 Honors Communications w/ AP Physics 1	English 10 or English 10 Honors or American Studies 10 Honors	English 10 or English 10 Honors or American Studies 10 Honors	
Social Studies 3.5 Credits	Human Geography and Civics or Immersion Human Geography and Civics or AP Human Geography 9	Human Geography and Civics or Immersion Human Geography and Civics or AP Human Geography 9	Contemporary U.S. History G (also Tonka Online) or AP U.S. History or American Studies 10 Honors	Contemporary U.S. History G (also Tonka Online) or AP U.S. History or American Studies 10 Honors	
Mathematics 3 Credits including: Higher Algebra, equivalent or higher	Select an Appropriate Math	Select an Appropriate Math	Select an Appropriate Math	Select an Appropriate Math	
Science 3 Credits including: 1 Physical Science 1 Biology 1 Chemistry/Physics	Integrated Physical Science G or Honors or AP Physics 1	Integrated Physical Science G or Honors or AP Physics 1	Chemistry G or Honors (also Tonka Online) or AP Chemistry or Physics G (also Tonka Online) or AP Physics	Chemistry G or Honors (also Tonka Online) or AP Chemistry or Physics G (also Tonka Online) or AP Physics	
Exit Requirements					
The Arts 1 Credit (see page 3)					
Physical Education .5 Fitness & .5 Wellness or waiver					
Health .5 Credit	Embedded Health Education No Course Registration Required		Embedded Health Education No Course Registration Required		
Electives					
TOTAL CREDITS: 22.5 Credits Req.	6 Credits Required		6 Credits Required		

Write the names/numbers of your course selections in the boxes below. Schedule up to six classes per semester. To increase opportunities, Tonka Online may be scheduled over the summer or as a seventh course (fees apply). Keep this worksheet for use during registration in future years.

	11th Grade		12th Grade		Tonka Online
	Semester 1	Semester 2	Semester 1	Semester 2	
	English 11 (also Tonka Online) or AP Lit. & Comp. or IB English HL Year 1 or IB Lang. & Lit. SL or IB Lit & Perform SL or VANTAGE 102 or 600	English 11 (also Tonka Online) or AP Lit. & Comp. or IB English HL Year 1 or IB Lang. & Lit. SL or IB Lit & Perform SL or VANTAGE 102 or 600	English 12 (also Tonka Online) or 12 Honors or AP or IB English Courses or VANTAGE 102 or 600	One Semester-long Senior B Option or AP or IB English Courses or VANTAGE 102 or 600	
	World History G (also Tonka Online) or AP European History or IB History of Europe HL Year 1 or VANTAGE 200 or 300	World History G (also Tonka Online) or AP European History or IB History of Europe HL Year 1 or VANTAGE 200 or 300	Global Studies/ Economics G or AP or IB Social Studies Courses or VANTAGE 102, 200 or 300 (electives available also)	Global Studies/ Economics G or AP or IB Social Studies Courses or VANTAGE 102, 200 or 300 (electives available also)	
	Select an Appropriate Math	Select an Appropriate Math	Electives	Electives	
	Biology G (also Tonka Online) or AP Biology or IB Biology SL or Physics or AP Physics or VANTAGE 200 or 300	Biology G (also Tonka Online) or AP Biology or IB Biology SL or Physics or AP Physics or VANTAGE 200 or 300	IB Bio HL or VANTAGE 200 or 300 or other electives	IB Bio HL or VANTAGE 200 or 300 or other electives	
	VANTAGE 200 or other choices	VANTAGE 200 or other choices	VANTAGE 200 or other choices	VANTAGE 200 or other choices	
	Embedded Health Education No Course Registration Required		Embedded Health Education No Course Registration Required		
	5 Credits Required With an adequate number of credits to progress towards graduation		5 Credits Required With an adequate number of credits to progress towards graduation		

General Information

REGISTRATION

Students register online early in the second semester for the next school year. Students are urged to read this guide and to listen carefully to their counselors and teachers as they give direction and assistance in high school and post high school planning. It is important to make good decisions now about course selections because course changes are limited.

NEW STUDENTS

New students who move into the District during the summer or school year are encouraged to enroll as soon as possible. Please telephone the District Service Center (952-401-5000) to get started. The second step of the registration process is to call the high school (952-401-5700) to set up an appointment to meet with your school counselor. Counselors will assist students with appropriate course selections and registration.

MINNESOTA OPEN ENROLLMENT OPTION

Minnetonka High School welcomes non-resident students through Minnesota's Open Enrollment Program. Students may enroll at the start of the year or semester break. Apply by January 15 for the following school year. Once enrolled, students may continue in Minnetonka through graduation, providing their open enrollment status does not change. Call the District Office for additional information (952-401-5000).

CREDITS

Full-time students must be enrolled for a minimum of six (6) credits in grades nine and ten, a minimum of five (5.0) credits in grades eleven and twelve, with an adequate number of credits to progress toward graduation.

A student who satisfactorily completes a high school course shall receive secondary course credit and the credit shall count toward the student's graduation requirements.

Tonka Online courses earn .5 credits, which count toward graduation. There is no fee for Tonka Online taken with the regular six-credit course load. Fees will apply for students who wish to maximize their opportunities by adding a seventh class or taking a summer class through Tonka Online.

Students who enroll into Hennepin Technical Center (HTC) must meet their graduation class credit requirements in English, Social Studies, Mathematics, Science, Health, Physical Education and the Arts. In addition to these required credits, students must acquire enough elective credits to meet their graduating class total required credits.

PASS/FAIL

The PASS/FAIL option is for unusual personal circumstances and requires school principal approval. If a student is taking the course PASS/FAIL, the student must have passing work to receive credit for the course. All "Pass/Fail" students in any course will take all tests and turn in regular class work along with other students. A class taken on a "Pass/Fail" basis will not affect a student's grade point average or honor roll standing. If the student passes the class, the student will receive a "P" and a full semester credit on his/her report card for that class. If the student fails the class, the student would then receive an "F" on the report card. A student may only have one PASS/FAIL course per year except in unusual circumstances as determined by the school principal.

Attention Athletes: If you plan to participate in Division I or Division II college athletics, note that courses awarded pass/fail will be assigned our schools' lowest passing grade by the NCAA Initial Eligibility Center. Students must realize that once they sign up for this grading system, they cannot change systems during the course without teacher approval.

SCHEDULE CHANGES

Schedule change requests require an "Academic Change Request Form" available in the counseling office. All requests must be submitted prior to the start of the semester. Students who want to drop a course must make that request within the first four weeks of a semester course. Students may not drop below the minimum course load required. All academic level changes should be completed by the end of the fourth week of each semester unless recommended by a teacher.

PROGRAM PLANNING

Minnetonka High School offers more than 300 courses in 21 programs and departments. Many departments provide classes for varying levels of student ability. Students preparing for college are encouraged to consider high ability courses in areas of academic strength. Among recent MHS graduating classes, MOST students (approximately 79%) completed at least one Advancement Placement (AP) or International Baccalaureate (IB) course as part of their four-year plan. Selective colleges expect enrollment in accelerated (Honors), AP or IB courses.

High Ability Courses (AP, IB, Honors)

Because of the superior preparation Minnetonka students receive in elementary and middle school, most students have demonstrated above-average ability compared to national norms. Most MHS students with high ability or a high interest in certain subjects should seriously consider registering for courses labeled "accelerated" (Honors), Advanced Placement (AP) or International Baccalaureate (IB). Advantages in doing so include:

- Less repetition of material already learned
- More in-depth discussion
- The challenge of more competition
- Possible college credit
- Stronger college preparation and more competitive college application

High-level courses will be noted on a student's transcript. An explanation of enriched and accelerated courses is provided to colleges and universities with transcripts. In the course list, "Honors" indicates that the course is designed to prepare students for AP and IB courses. Courses labeled as Advanced Placement (AP) and International Baccalaureate (IB) are weighted in G.P.A. calculations. *(An explanation of specific weighting is included on the next page.)*

Students enrolled in rigorous courses of study, such as AP or IB must still meet Minnesota State Standards for a comprehensive education. State statute provides local school boards with authority to grant a rigorous course of study waiver for students who meet the criteria in the statute.

COLLEGE ENTRANCE EXAMS

The PSAT/NMSQT is available during the fall of junior year and is used for selection in the National Merit Scholarship Program.

The NCAA requires SAT or ACT scores to participate in freshman athletics at Division I and II colleges. If you are considering Early Decision at a highly selective college, or you are curious about how well you will do, take the College Entrance Examination Board's Scholastic Assessment Test (SAT) and/or the American College Test (ACT) in the second semester of your junior year. This optional ACT test is administered in April during the school day.

Take or retake the ACT or SAT in the fall of your senior year as necessary to meet admission requirements at specific colleges. A few colleges also require SAT subject tests. If you have questions about which tests you need to take, check the college websites, information in the College and Career Center and/or your counselor.

General Information

NCAA DIVISION I/II STUDENT-ATHLETE ELIGIBILITY

To be considered a qualifier at a Division I institution and to be eligible for financial aid, practice, and competition during the first year, the student must meet the following core course requirements:

DIVISION I
16 Core-Course Rule

16 Core Courses
- 4 years of English
- 3 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (1 year of lab if offered by high school)
- 1 year of additional English, mathematics or natural/physical science
- 2 years of social science
- 4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy)

DIVISION II
16 Core-Course Rule

16 Core Courses
- 3 years of English
- 2 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (1 year of lab if offered by high school)
- 3 years of additional English, mathematics or natural/physical science
- 2 years of social science
- 4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy)

For purposes of meeting core curriculum requirements, a "core course" is defined by the NCAA Bylaw 5-1(j) as recognized academic course designed to prepare a student for college level work as opposed to a vocational or personal-service course. All Tonka Online courses are NCAA approved.

Courses taught at a level below the high school's regular academic instruction level (e.g., remedial, special education or compensatory) shall not be considered as core courses regardless of course content. The counseling office has a list of "core courses" that have been approved by the NCAA Initial Eligibility Center.

EXAMINATIONS FOR COLLEGE CREDIT

Opportunities exist for students to begin college at a more advanced level in areas where they have achieved the knowledge and skills required for basic freshmen courses. Test scores are used to determine advancement and/or credit toward a degree. Three of these opportunities are mentioned below. Direct inquiries should be made to the counselors or directly to the college of your choice.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College of Entrance Examination Board sponsors the CLEP Program. It is a national program of credit by examination that offers you the opportunity to obtain recognition for college-level achievement. No matter when, where or how you have learned, by means of formal or informal study–you can take CLEP tests. If the results are acceptable to your college, you will receive credit.

Many colleges today encourage students to take CLEP tests for credit in courses for which they already have mastered the content. People of all ages have reduced college costs in time and money by successfully completing CLEP tests for credit.

ADVANCED PLACEMENT (AP)

The Advanced Placement Program is an opportunity for high school students to take college-level courses and to receive credit for their knowledge and achievement. Minnetonka High School offers 30 Advanced Placement courses (see "Advanced Placement (AP)" on page 10). If a student scores well, a college that participates in the program will award credit and/or allow the student to advance in those subject areas. The State pays a portion of the AP exam fee, and students are responsible for the other portion.

AP courses receive additional weighting in G.P.A. calculations for all purposes at the high school. Students who successfully complete an AP course, take the AP exam at the end of the course and earn a score of 3 or higher receive an additional 1.0 in G.P.A. calculations (i.e., A=5.0, B=4.0, etc.).

INTERNATIONAL BACCALAUREATE (IB) PROGRAMME FOR GRADES 11-12

The International Baccalaureate Diploma Programme and IB Bilingual Diploma Programme provide an international standard of excellence and intellectual rigor for college-bound students worldwide. At Minnetonka High School, IB is a two-year course of study including six areas of study: English, world language, individuals and society, sciences, mathematics, and the arts. Its comprehensive and balanced curriculum, coupled with challenging assessments, aims to develop the individual talents of young people and teach them to relate the experience of the classroom to the realities of the outside world. Beyond intellectual rigor and high academic standards, strong emphasis is placed on the ideals of international understanding and responsible citizenship. Students become critical and compassionate thinkers, lifelong learners and informed participants in local and world affairs (see "International Baccalaureate (IB)" on page 50).

This rigorous program provides high school students an opportunity to take college level classes while still in high school. Many colleges offer credit at their institutions for high scores on IB exams taken in high school. Per IB policies, exams may only be taken during the junior or senior year. Students should research specific policies at colleges they are interested in attending.

At Minnetonka High School, IB courses receive additional weighting in all G.P.A. calculations. Students who successfully complete an IB course, take the IB exam and earn a score of 4 or higher receive an additional 1.0 in G.P.A. calculations (i.e., A=5.0, B=4.0, etc.).

INDEPENDENT/PARALLEL STUDY**

This program is designed to enable students to receive credit for an independent study that will satisfy the graduation requirements for a subject area. The independent study will parallel the curriculum of a high school course, but the methods of learning may be different and the experiences may take place outside the classroom. The instructor and the student determine the course of study prior to the commencement of study. Students should contact the teacher of the course they intend to parallel prior to seeing the Advanced Learning Coordinator. Students should contact the Advanced Learning Coordinator for application forms and detailed information about the program.

General Information

INDEPENDENT ELECTIVE COURSE STUDY**

This program is designed to enable students to receive elective credit toward graduation requirements for specialized independent study, which is not available in the regular curriculum or in co-curricular activities. The course of study will be determined by the instructor and the student prior to the commencement of study. A maximum of .25 credits per quarter will be awarded for work completed. See the Advanced Learning Coordinator for application forms and more detailed information.

**Students may not drop a course to add a Parallel Study after the semester or quarter begins. If students are registered for at least five classes they may add an Independent Study within the first two weeks of a semester or quarter.

ONLINE COURSES

There are opportunities for students to complete courses online through a variety of accredited programs. Students interested in online courses must meet with their school counselors prior to enrolling. Online courses that have not been approved by the Minnesota Department of Education must be approved by the student's counselor prior to online registration to receive credit.

TONKA ONLINE: Tonka Online provides Minnetonka High School students with opportunities to explore areas of interest, flexibility in scheduling, and preparation for higher level courses. With more than 300 courses offered at Minnetonka High School—including specialty programs like VANTAGE, International Baccalaureate, Project Lead the Way, and a world-class fine arts program—students occasionally have a hard time making it all fit. By taking advantage of Tonka Online, students can complete required or preparatory courses during the summer or pick up a seventh "class" during the school year. Creatively mapping a four-year plan, students now have the ability to complete three years of math in two years, take two music classes during the year, pursue electives that align with their passions, or ensure time for specialty programs during the junior and senior year.

Tonka Online offers the best of both worlds—online flexibility with Minnetonka teachers. Through Tonka Online, students have the advantage of a high quality Minnetonka curriculum, taught by outstanding Minnetonka teachers, but students can complete their work on their own time, at their own pace, and in their own study space. All Tonka Online courses are approved by the Minnesota Department of Education and the NCAA.

Students who choose to take an online course in addition to the standard six-period course-load will be charged a fee of $325 for each semester course. The fee for P.E. is $199.

VANTAGE: ADVANCED PROFESSIONAL STUDIES

VANTAGE, Minnetonka's Advanced Professional Studies program, provides junior and senior students with real-world experiences in professional settings, where they can learn and develop skills for high-demand careers (see "VANTAGE" on page 115).

Transforming the high school experience, this innovative program is a year-long, two- or three-credit course of study where students learn through case studies, partner-directed projects, and immersion in a profession-based program. All VANTAGE students are assigned a professional mentor. There is no GPA requirement for VANTAGE; however, students must demonstrate maturity, professionalism, responsibility and an interest in a career field to be accepted into the program. Apply online at www.TonkaVANTAGE.com.

VANTAGE courses are taught off-campus at the VANTAGE offices, conveniently located at the intersection of 494 & 7 on Baker Road. Students regularly travel to professional partner locations throughout the Twin Cities metro area. Professional attire is required.

UNIVERSITY OF MINNESOTA TALENTED YOUTH MATHEMATICS PROGRAM (UMTYMP)

UMTYMP is an accelerated program for students in grades 6-12 who are decidedly talented in mathematics. The highly accelerated courses are specially designed to provide students with an intense academic experience that stimulates their mathematical interest and abilities. UMTYMP is offered through the University of Minnesota School of Mathematics Center for Educational Programs (MathCEP), and students must test into the program. Students who attend UMTYMP earn their math credits for high school graduation through this program. For information on UMTYMP and the qualifying exam, consult the website at http://mathcep.umn.edu/umtymp/ or call the MathCEP office at 612-625-2861.

MN CENTER FOR ARTS EDUCATION PUBLIC HIGH SCHOOL

The School of the Arts is a unique, statewide, tuition-free public high school. It offers intensive arts programs in dance, literary arts, media arts, music, theater, and visual arts coupled with strong general studies. Applications are accepted from all Minnesota 10th and 11th grade students who wish to apply for the following school year. The application deadline is February 1 of the year prior to the school year for which application is made. Enrollment is limited. Please see a counselor for additional information.

MINNETONKA OPTIONS

Students who plan to submit coursework done in a setting other than Minnetonka High School for MHS graduation credit must consult with their counselor for guidelines governing acceptance of such credit.

COURSE CREDIT FOR PRIOR LEARNING

Students may test out of any courses offered at Minnetonka High School and receive credit in any subject area if the student is able to demonstrate mastery of the curriculum for that course. Application for Credit by Assessment may occur one quarter in advance of the start of the class or no later than three weeks into the course. See your counselor for application forms and more detailed information.

AREA LEARNING CENTER–INDEPENDENT STUDY

Independent Study is a state certified program for students who are 16 years of age or older who have fallen behind in their graduation plan. Students meet once a week with their teacher(s) and complete assignments on their own time (these courses are in addition to the student's regular schedule). See counselors for additional information.

PSEO—POST-SECONDARY ENROLLMENT OPTIONS

This option allows any 11th or 12th grader to attend a Minnesota college (subject to college acceptance) at the expense of the state. Students will be granted credits toward their high school diploma for classes successfully completed at the college level. Eligible 10th grade students can enroll in one Career and Technical Education course. It is important that you check with the college you are interested in for the specific PSEO application deadline. See your counselor for more information regarding this program.

SPECIAL NEEDS AND SERVICES

Students who have disabilities related to hearing, vision, speech, physical mobility, or who have disabilities related to learning or social, emotional, or behavioral needs may be eligible for special education service after an assessment to determine eligibility and need. Students may not register for these services; enrollment is a team decision and is based upon the

assessment results. Programs which carry credit toward graduation include alternative courses in the Learning Center including: instruction in the basic skills areas of reading, writing, spelling, math, teaching executive functioning skills (organization, time management, study skills), guidance in behavioral and emotional regulation, social skills and improving peer interactions, and transition planning for post-secondary programs. Special education services could also include speech and language, adaptive physical education and work programs.

Learning Center – Grades: 9-12 – Credit as Arranged
A student's eligibility for special education is based on an assessment process after a referral has been made. The program is designed to meet individual student needs. This includes: assistance with mainstream assignments, teaching study skills, instruction in the basic skills areas of reading, writing, spelling, math, guidance in behavioral and emotional adjustments in dealing with teen issues and improving peer interactions, and transition planning for post-secondary programs. Special education also includes speech and language services.

COMPASS Program – Grades 9-12
The core goal and focus of COMPASS is to provide support to students both personally and academically. A major part in reaching this goal is to help students build the skills they need to meet personal challenges, be self-advocates, increase self-esteem, improve study skills, complete academic work and plan for the future. COMPASS' mission is to guide our students to their highest potential while developing the necessary skills for the world outside Minnetonka High School. To meet these goals students are provided a flexible and supportive environment where they are challenged by the mainstream curriculum. Class sizes are limited to 15 students per grade; others may be placed on the waiting list.

Work Experience
This program provides an opportunity for disadvantaged students, typically related to economics, to earn income while also earning high school elective credit. Students appropriate for this program must have a documented financial need or barrier such as, but not limited to, living on one's own, contributing to household income or paying child support.

ALP (Alternative Learning Program) – Grades 9-10
The goal of this program is to meet the special needs of 9th and 10th grade students who are struggling academically and have a desire to succeed. Eligibility is based on teacher referral. This is an asset based, creative, and flexible program. It is closely tied to the existing 9th and 10th grade curriculum, including district and state standards.

ELL (English Language Learners)
Students may qualify for ELL classes with the approval of the ELL department. This program is for students whose first language is not English and whose English proficiency makes it difficult to perform in a mainstream class. Students are tested and may be placed in one to three classes. All ELL students also take some mainstream classes. All ELL classes offer instruction in the four basic areas: speaking, reading, listening, and writing. See "English Language Learner Program" on page 45 for course descriptions.

Members of the Minnetonka School Board recognize National Merit Semifinalists and National AP Scholars in the fall.

Advanced Placement (AP)

Advanced Placement (AP) provides an opportunity for high school students to take college-level courses. Courses use college-level books and teach students how to read and write at the college level. Students take national AP exams in May, for which there is a fee. There may be scholarships available for exam fees for those students in need. Exams are scored on a five-point scale. AP courses receive additional weighting in G.P.A. calculations. Students who successfully complete an AP course, take the AP exam at the end of the course and earn a score of three or higher receive an additional 1.0 in G.P.A. calculations. Exams earning a three or higher are considered for college credit at most universities and colleges. Please visit university and college websites for AP credit policies.

Most MHS upperclassmen take AP or IB courses. Students who take three or more AP courses may be eligible for AP Scholar Awards from The College Board, which recognizes high school students who have demonstrated outstanding college-level achievement. There are four award categories: National AP Scholar, AP Scholar with Distinction, AP Scholar with Honor and AP Scholar. Although there is no monetary award, the AP Scholar Awards are academic distinctions that students may cite among their credentials on college applications. Learn more about the award criteria at http://apcentral.collegeboard.com.

AP ART				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
T800F	AP Art History, Tonka Online	.5	None	10-12
AP602	AP Studio Art	.5	Successful completion of two or more semesters of art; Drawing highly recommended	11-12
AP COMPUTER SCIENCE				
AP412 AP414	AP Computer Science A, S1 AP Computer Science A, S2	.5 .5	C or better in Higher Algebra or Higher Algebra Honors. See "Computer Science" on page 32 for course sequence recommendations.	9-12
AP416 AP418 T966* T967*	AP Computer Science Principles, S1 AP Computer Science Principles, S2 AP Computer Science Principles, part 1, Tonka Online *Select Term: T966S / T966F / T966W AP Computer Science Principles, part 2, Tonka Online *Select Term: T967S / T967F / T967W	.5 .5 .5 .5	C or better in Algebra; Introduction to Computer Science is recommended but not required	9-12
AP ENGLISH				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
AP100 AP102	AP English 11 Literature and Composition, S1 AP English 11 Literature and Composition, S2	.5 .5	Any English 10 Course	11
AP104 T704*	AP Language & Composition 12 AP Language & Composition 12, Tonka Online *Select Term: T704S / T704F / T704W	.5 .5	Any English 11 Course	12
AP MATH				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
AP400 AP402 T354* T356*	AP Statistics, S1 AP Statistics, S2 AP Statistics, part 1, Tonka Online *Select Term: T354S / T354F / T354W AP Statistics, part 2, Tonka Online *Select Term: T356S / T356F / T356W	.5 .5 .5 .5	Successful completion of Math Studies; Functions, Stats & Trig, Precalculus; Tonka Online FST Pre-AP Stats Prep; or teacher recommendation.	11-12
AP404 AP406	AP Calculus AB, S1 AP Calculus AB, S2	.5	C or better in Precalculus, Precalculus Honors or Calculus	11-12
AP408 AP410	AP Calculus BC, S1 AP Calculus BC, S2	.5 .5	C or better in AP Calculus AB or B+ or better in Calculus.	11-12
AP MUSIC				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
AP700	AP Music Theory	.5	A or B in Theory 1 or pretest/application prior to registration	10-12

This logo denotes Tonka Online courses. * For all Tonka Online courses, indicate the term you are selecting by adding an S-summer, F-fall or W-winter term. When registering for two-semester courses, complete part 1 before taking part 2.

Advanced Placement (AP)

AP SCIENCE				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
AP304 AP306	AP Chemistry, S1 AP Chemistry, S2	.5 .5	A or B in Physical Science Honors with teacher recommendation and A or B in Higher Algebra	10-12
T200* T202*	AP Environmental Science, part 1, Tonka Online Select Term: T200S / T200F / T200W AP Environmental Science, part 2, Tonka Online Select Term: T202S / T202F / T202W	.5 .5	Chemistry, Physical Science. This course may also be taken through VANTAGE course #V300	11-12
AP300 AP302	AP Physics 1, S1 AP Physics 1, S2	.5 .5	8th grade Physical Science at MME/MMW, Higher Algebra, and 99th percentile math & reading scores	9
AP316 AP318	AP Physics 1, S1 AP Physics 1, S2	.5 .5	Physical Science, Chemistry and Precalculus	11-12
AP320 AP322	AP Biology, S1 AP Biology, S2	.5 .5	Physical Science and Chemistry	11-12
AP328 AP330	AP Physics 2, S1 AP Physics 2, S2	.5 .5	AP Physics 1 or General Physics, Chemistry, Precalculus or Higher Algebra	11-12
T208W	AP Physics C-Mechanics, winter, Tonka Online	.5	Have completed or be enrolled in both AP Physics 1 AND a calculus course before or while taking AP Physics C-Mechanics Online.	10-12
AP324 AP326	AP Physics C–Electricity and Magnetism with topics in Modern Physics, S1 AP Physics C–Electricity and Magnetism with topics in Modern Physics, S2	.5 .5	Calculus course and AP Physics 1 (or another physics course with teacher recommendation). AP Physics C-Mechanics Online is highly recommended but not required.	11-12 11-12
AP SOCIAL STUDIES				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
AP200 AP202	AP Human Geography 9, S1 AP Human Geography 9, S2	.5 .5	Grade 9: B+ or better in 8th grade English and Social Studies; Year-long course.	9 9
AP204 AP206	AP U.S. History, S1 AP U.S. History, S2	.5 .5	Human Geography and Civics; AP Human Geography	10 10
AP208 AP210	AP European History, S1 AP European History, S2	.5 .5	Contemporary US Hist, AP U.S. History; American Studies 10 Honors (B or better)	11 11
T120* T122*	AP World History, part 1, Tonka Online *Select Term: T120S / T120F / T120W AP World History, part 2, Tonka Online *Select Term: T122S / T122F / T122W	.5 .5	Contemporary U.S. History; AP U.S. History; American Studies 10 Honors (grade B or better)	11-12
AP212	AP Human Geography	.5	Ability to read and write at the college level. Semester-long course.	11-12
AP214	AP U.S. Government and Politics	.5	None	11-12
AP216 T140*	AP Comparative Government AP Comparative Government, Tonka Online *Select Term: T140S / T140F / T140W	.5 .5	None	11-12
AP218 T136*	AP Macroeconomics AP Macroeconomics, Tonka Online *Select Term: T136S / T136F / T136W	.5 .5	None	11-12
AP220 T108*	AP Psychology AP Psychology, Tonka Online *Select Term: T108S / T108F / T108W	.5 .5	None	11-12
AP222	AP Psychology Hybrid Course	.5	None	11-12

Advanced Placement (AP)

AP WORLD LANGUAGES				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
AP500 AP502	AP French V, S1 AP French V, S2	.5 .5	French IV Honors	12 12
AP504 AP506	AP Spanish V Language & Culture, S1 AP Spanish V Language & Culture, S2	.5 .5	Spanish IV Honors	12 12
IM104 IM106	AP Chinese Language & Culture-IM, S1 AP Chinese Language & Culture-IM, S2	.5 .5	K-8 Chinese Immersion enrollment; Intermediate Mid-High Spring (5/6) STAMP score recommended	9-10
IM204 IM206	AP Spanish Language & Culture-IM, S1 AP Spanish Language & Culture-IM, S2	.5 .5	K-8 Spanish Immersion Enrollment; Intermediate Mid-High Spring (5/6) STAMP score recommended	9-10
VANTAGE: Minnetonka Advanced Professional Studies				
Course #	**Course Title**	**Credits**	**Prerequisites**	**Offered**
V100	**Business Analytics** • AP Statistics (math credit) and • IB Business Management SL/HL (business elective)	2.0	Interest in business and/or statistics Application process	11-12
V102	**Business in a Global Economy** • AP Micro & Macroeconomics (social studies credit) • English & Advanced Research (English credit) • IB Business Management SL/HL (business elective)	3.0	Interest in global business; Application process	11-12
V200	**Health Sciences** • AP Psychology (social studies credit) • Exercise Science Fitness A & Mental Health and Wellness B (required PE credit) • IB Sports Exercise and Health Science (science credit)	3.0	Physical science; algebra; interest in healthcare or sports medicine and science; Chemistry strongly recommended. Application process	11-12
V300	**Global Food Sustainability: Economics and the Environment** • AP Environmental Science (science credit) • Global Studies and Economics (social studies credit)	2.0	Biology G, AP Biology or IB Biology SL Interest in sustainability Application process	11-12

Advanced Placement (AP)

TONKA ONLINE AP ART HISTORY

Course #T800F, Tonka Online

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
In this Art History course you will acquire the tools enabling you to be conversant about any piece of art you encounter for the rest of your life, mastering how to approach a work of art, the vocabulary and analytical methods with which to discuss it, and the knowledge of how it fits into the general sweep of art historical periods and styles. AP Art History is designed as a college level course and students need to be prepared to keep up with the rigor of the material. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Visual aids—slides, prints, etc.—will be used for discussion of other cultures, styles, and works of individual artists. Supplemental readings will be assigned. The class will take trips to museums, galleries, and studios to view and discuss original works of art. Taking the AP test at the end is a personal choice, not a requirement. Assessment is based upon degree of involvement, group participation, cooperation, supplemental readings, critiques, journaling, and written evaluations.

Recommended Background for Success:
Students should expect to participate actively by reading, writing, and discussing art ideas. The ability to write essays is a critical component of the AP exam.

AP STUDIO ART

Course #AP602

This course completes .5 towards the Arts credit

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Successful completion of two or more semesters of art; Drawing highly recommended

Course Description:
This course is for students who are considering post-secondary study in art and will focus on their options for future studies in fine, commercial, or applied art.

Instructional Methods/Assessments:
Students will prepare a portfolio of recent and/or current work, which demonstrates both breadth and quality. Students are expected to submit a portfolio to the College Board for evaluation in the early spring. This is primarily a studio course but includes units of art appreciation and art history. This course includes a large amount of independent work, along with group collaborations, lectures, and demonstrations. Students may focus their portfolio in any of the art areas: photography, ceramics, painting, jewelry, drawing, etc. Assessment is based upon degree of involvement, participation in critiques, group participation, problem solving, cooperation, completion of work, and journaling. It is expected that students electing this course will take the AP exam, for which there is a fee.

Recommended Background for Success:
The work submitted to the College Board for evaluation should reflect first year college standards. Students may take this course without submitting a portfolio, and portfolios are generally only accepted from high school juniors and seniors. Submission of the portfolio to the College Board is optional.

AP ENGLISH 11 LITERATURE & COMPOSITION

Course #AP100, S1
Course #AP102, S2

Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Any English 10 course

Course Description:
AP Literature and Composition prepares students to take the AP Literature and Composition exam and to succeed in college English courses. This course emphasizes accurate, perceptive reading of major British and American Literature representing all literary genres—poetry, drama, novel, short story—covering the 17th to the 20th century. Students write analytical and interpretive essays about the texts; they examine the techniques writers use to create particular effects and enhance meaning; and they generate independent, thoughtful and analytical discourse in writing and class discussion. Vocabulary study will include both words from literature and a vocabulary series. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lecture and large and small group discussion are the primary instruction methods. Students will be assessed by means of quizzes, tests, essays and oral presentations.

Recommended Background for Success:
Students should be eager to accept the challenge of difficult coursework. They should be skillful readers and insightful discussants, who are interested in analyzing and interpreting literature.

AP LANGUAGE & COMPOSITION 12

Elective or Required Option
Course #AP104

Course #T704*, Tonka Online
***Select from S=summer F=fall or W=winter**

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 course

Course Description:
Students in this introductory college-level course read and carefully analyze a broad and challenging range of nonfiction prose selections, increasing their awareness of rhetoric and how language works. This course emphasizes the study of a variety of texts and a variety of writing tasks, including the planning, writing and most importantly, the revising of sustained essays. Course readings feature expository, analytical, personal and argumentative texts from a variety of authors and historical contexts. Students examine and work with essays, letters, speeches, images, media messages, memoirs and autobiographies. Students will write a variety of essays and will learn and use a variety of techniques that will transfer to writing they will do in college and other post-secondary settings. Students prepare for the AP English Language and Composition Exam and may be granted advanced placement, college credit or both as a result of satisfactory performance. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Large and small group discussion, in-class writing, small group evaluation of student papers, individual conferences with the teacher, and lecture. Students are assessed primarily through their writing of essays and texts.

Recommended Background for Success:
As this is a college-level course, performance expectations are appropriately high, and the workload is challenging. Often, the course work involves long-term writing and reading assignments, so effective time-management is important. Because of the demanding curriculum, students must bring sufficient command of mechanical conventions and an ability to read and discuss prose.

Advanced Placement (AP)

AP STATISTICS

Course #AP400, S1
Course #AP402, S2
Course #T354*, part 1, Tonka Online
Course #T356*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Math Studies, Functions, Stats & Trig, Precalculus, or Tonka Online FST Pre-AP Stats Prep or teacher recommendation

Course Description:
This semester focuses on descriptive statistics. Topics include exploring data, normal distributions, bivariate data, linear & non-linear regression, sample design, and probability. Students focus on inferential statistics. Topics include random variables, binomial and geometric distributions, sample distributions, tests of significance, and inference of means, proportions, two-way tables and regression. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include investigations, experiments, lectures and group discussions. Assessments include homework, tests, quizzes and laboratory reports.

Recommended Background for Success:
Ability to solve equations, inequalities, and systems of equations; represent and solve real-world problems using equations/geometric diagrams. A strong understanding of exponential arithmetic.

AP CALCULUS AB

Course #AP404, S1
Course #AP406, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: C or better in Precalculus, Precalculus Honors or Calculus

Course Description:
A review of analytic geometry, inequalities, absolute value and trigonometry is included. The major emphasis is on differential calculus with applications. Limit theory is presented to the extent necessary for the development of the derivative. Emphasis will be placed on preparing for the Advanced Placement Exam. AP Calculus AB 2 is a continuation of AP Calculus AB 1. A thorough study will be made of the definite and indefinite integral, integration of the transcendental functions, and applications. If time permits, the study of other topics in advanced math will be considered. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, cooperative learning and individual investigations. Assessments include daily work, quizzes, tests and year-end final exam.

Recommended Background for Success:
Students in AP Calculus AB 1 must have a knowledge of coordinates and graphs in the plane, slope and equations for lines, relations, functions and their graphs; geometric transformations (shifts, reflections, shrinks and stretches); solving equations and inequalities algebraically and graphically; trigonometric functions (triangle, circular and graphically). Students in AP Calculus AB 2 must have a knowledge of limits and continuity. Differentiation, and applications of differentiation, are necessary for AP Calculus AB 2. Students will need a graphing calculator.

AP CALCULUS BC

Course #AP408, S1
Course #AP410, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: C or better in AP Calculus AB or B+ or better in Calculus

Course Description:
This course will review topics in AP Calculus AB 1 and 2 such as limit theory, differentiation, applications of the derivative, integration, applications of integrals, and numerical approximations of definite integral. The course covers parametric, polar, and vector functions, their derivatives, slopes fields, Euler's method, and convergence of improper integrals and series. Emphasis will be placed on preparing for the Advanced Placement Exam. It is expected that students electing this course will take the AP exam, for which there is a fee. A graphing calculator is required.

Instructional Methods/Assessments:
Instructional methods include lectures, cooperative learning, class presentation, discussion, group and individual investigations. Assessments include tests, quizzes, daily work and projects.

Recommended Background for Success:
Limits and continuity, differentiation and applications of differentiation, integration and applications of integration, differential equations, and numerical approximations.

AP COMPUTER SCIENCE A

Course #AP412, S1
Course #AP414, S2

Grade(s) offered: 9-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: C or better in Higher Algebra, Higher Algebra Honors, or Instructor's permission

Course Description:
AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using the Java programming language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many introductory courses at colleges and universities. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, small-group and individual activities, and computer lab investigations. Assessments include tests, quizzes, homework, and projects.

Recommended Background for Success:
No programming experience is required. Students should have acquired a strong foundation of mathematical reasoning skills prior to attempting this course.

AP COMPUTER SCIENCE PRINCIPLES

Course #AP416, S1
Course #AP418, S2
Course #T966*, part 1, Tonka Online
Course #T967*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grades Offered: 9-12
Credits: .5 (per semester)
Prerequisites: C or better in Algebra; Introduction to Computer Science is recommended but not required

Course Description:
CS Principles is designed to be a full-year, rigorous, but entry-level course for high school students. The Internet and Innovation provide a narrative arc for the course, a thread connecting

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all of the units. The course starts with learning about what is involved in sending a single bit of information from one place to another, and ends with students developing small applications of their own design that live on the web. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Assessment
The AP Assessment consists of a multiple choice exam and two "through-course" assessments called the AP Performance Tasks (PTs).
Summative Assessments
There are several lessons in the curriculum that outline projects that are very similar to the AP PTs. We call them Practice PTs. Each unit contains at least one Practice PT and some have two. It is highly recommended that the teacher use these in order to help students prepare for the actual Performance Tasks.

Recommended Background for Success:
This course can be an entry-level course, however, it is recommended that students take Intro to Computer Science prior to AP Computer Science Principles. The Intro to CS course can be taken at either the middle school level (8th grade) or the high school level. The course requires a significant amount of expository writing (as well as writing computer code, of course). For students wishing to complete the requirements of the AP Exam and Performance Tasks, we recommend they be in 10th grade or above.

The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

AP MUSIC THEORY

Course #AP700
This course completes .5 towards the Arts credit
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: A or B in Theory 1 or pretest/application prior to registration

Course Description:
Music Theory 2 is a one-term class designed for students who have some experience in music but want to further develop and increase skills in reading, writing, listening, and analyzing music. It is also designed to prepare students interested in studying music at the post-secondary level. This class is designed as a continuation of Music Theory 1 but is accessible to students with previous music experiences. Students will have in depth experiences in ear training, computer notation, arranging, music analysis, and compositional techniques with historical perspectives. Previous music experience is necessary for enrollment. Public performance is not a requirement of the class. Students will be evaluated on the basis of class participation/daily work, selected projects, quizzes, and a notebook. A final examination will be given at the end of the term. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Students develop individual composition projects, use the computer for drill and practice of music theory concepts, sight-sing and, analyze compositions. Assessments include prior knowledge, tests, quizzes, projects, student progress reports, self-evaluation, peer evaluation and teacher evaluation.

Recommended Background for Success:
Previous music experience is necessary for enrollment.

AP CHEMISTRY

Course #AP304, S1
Course #AP306, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: A or B in Physical Science Honors and Higher Algebra

Course Description:
The goal of an AP Chemistry course is to provide students with the opportunity to learn the concept and applications of first-year college Chemistry. A process of problem solving is continually modeled and reinforced through lectures, demonstrations, and laboratory components. Topics include stoichiometry, thermochemistry, atomic structure, bonding, gases, acid-based reactions, kinetics, equilibrium, solutions, descriptive chemistry, electrochemistry and properties of solids. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
The course follows the outline that is provided by the AP College Board. Students develop organized methods to solve problems associated with first year college chemistry through lectures, laboratory work, quantitative problem solving, and group work. Documentation of successful completion of this course is provided by the AP Chemistry Examination in May. Students are tested throughout the year using multiple choice and free response format questions similar to the AP exam. Each student is required to maintain a laboratory notebook.

Recommended Background for Success:
A solid understanding of the concepts from General Chemistry as well as a mastery of Higher Algebra. Successful completion of Physical Science Honors along with teacher recommendation is necessary for incoming sophomores to enroll in AP Chemistry.

TONKA ONLINE AP ENVIRONMENTAL SCIENCE

Course #T200*, part 1, Tonka Online
Course #T202*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
This course may also be taken through VANTAGE #V300
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Chemistry, Physical Science

Course Description:
This is a full-year course for students interested in the world's natural environment and related issues. Students will analyze environmental issues and alternative solutions for resolving or preventing them. This multidisciplinary course will include diverse topics in sociology, ethics, earth science, ecology, population dynamics, land and water use, energy resources, pollution, and global change. It is expected that students electing this course will take the AP exam. AP Environmental Science is designed to be the equivalent of a one semester, introductory college course in environmental science.

Instructional Methods/Assessments:
Instructional methods include online lectures, tutorial activities, independent research projects, and field trips. Instructor support will be provided to students for each unit of study and exam preparation. Assessments include tests, quizzes, projects, lab reports and a final exam.

Recommended Background for Success:
A solid understanding of concepts in Life Science, Earth Science, Chemistry and/or Physical science.

AP PHYSICS 1

Course #AP300, S1 (grade 9)
Course #AP302, S2 (grade 9)
Course #AP316, S1 (grades 11-12)
Course #AP318, S2 (grades 11-12)
Credits: .5 (per semester)
Prerequisites
Grade 9: Enrolling in grade 9 requires successful completion of 8th grade Physical Science at MMW or MME, successful completion of Higher Algebra (students who have completed Geometry will have options to catch up with some Aleks math modules), and 99th percentile math and reading scores. Strong

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algebra and trigonometry skills are essential. For 9th grade students at Minnetonka, this course is integrated with English 9 Honors Communications. **Concurrent enrollment in AP Physics I (#AP300 and #AP302) and English 9 Honors Communications (#0910 and #0912) is required.** The English course focuses on preparing students for future research opportunities and for learning how to communicate in a technical and professional manner. Students learn how to write various technical reports, present scientific findings/ideas and make persuasive presentations. There will also be a short summer assignment.

Grades 11-12: Successful completion of Physical Science, Chemistry and Precalculus.

Course Description:
AP Physics 1: Algebra-based is the equivalent to a first-semester college course in algebra-based physics, but is designed to be taught over a full academic year, allowing time for AP teachers and students to develop deep understanding of the content and to apply that knowledge through inquiry-based labs. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power; mechanical waves and sound. It will also introduce electric circuits. Algebra and Trigonometry are used throughout this lab-centered, technology intensive course. Strong emphasis is placed on building a deep conceptual and mathematical understanding of these main physics principles. The class also focuses on solving a variety of challenging problems and developing higher-level analytical problem solving and lab based skills. Successful completion of this course will prepare students for the AP Physics I exam. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, demonstrations, reading assignments, problem solving, and labs. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam. Current technology is integrated into the course instruction.

Recommended Background for Success:
A solid understanding of the basic concepts in physical science and chemistry, as well as a mastery of the concepts of Higher Algebra.

AP BIOLOGY

Course #AP320, S1
Course #AP322, S2

Grade(s) offered:	11-12
Credits:	.5 (per semester)
Prerequisites:	Physical Science, Chemistry

Course Description:
Advanced Placement Biology is designed to provide learning experiences equivalent to a first year college biology course. This course, along with the prerequisites will provide students with background in content areas parallel to AP Biology. Examination topics and required lab work for the course are framed around four big ideas: the process of evolution drives the diversity and unity of life, biological systems utilize energy and molecular building blocks to grow, reproduce and maintain homeostasis, living systems retrieve, transmit and respond to information essential to life processes, and biological systems interact, and these interactions possess complex processes. Completion of this program will adequately prepare students for AP Biology examination. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include labs, lectures, reading assignments, discussions and extensive individual student preparation. Assessments include lab reports and examinations. *This course will not require a summer study component.*

Recommended Background for Success:
A solid understanding of basic concepts in Chemistry and/or Physics processes.

AP PHYSICS 2

Course #AP328, S1
Course #AP330, S2

Grade(s) offered:	11-12
Credits:	.5 (per semester)
Prerequisites:	AP Physics 1 or General Physics, Chemistry, Precalculus or Higher Algebra

Course Description:
AP Physics 2: Algebra-based is the equivalent to a second-semester college course in algebra-based physics, but is designed to be taught over a full academic year, allowing time for AP teachers and students to develop deep understanding of the content and to apply that knowledge through inquiry-based labs. Through inquiry-based learning, students will develop critical thinking and reasoning skills as defined by the AP Science Practices. The course covers thermodynamics, fluids, electricity, magnetism, geometric and physical optics, and modern physics including quantum, atomic and nuclear. Algebra and Trigonometry are used throughout this lab-centered, technology intensive course. The class also focuses on solving a variety of challenging problems and developing higher level analytical problem solving and lab based skills. Successful completion of this program will adequately prepare students for the AP Physics 2 exam. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, video resources, demonstrations, reading assignments, problem solving, and labs. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam.

Recommended Background for Success:
Prior completion of AP Physics 1 or General Physics, as well as a mastery of the concepts of Higher Algebra.

TONKA ONLINE AP PHYSICS C-MECHANICS

Course #T208W, Winter, Tonka Online

Grade(s) offered:	10-12
Credits:	.5 (second semester only)
Prerequisites:	Have completed or be enrolled in both AP Physics 1 AND a calculus course before or while taking AP Physics C-Mechanics Online.

Course Description:
AP Physics C-Mechanics Online is the equivalent of a first-semester college course in calculus-based physics. This one-semester course is only offered during second semester and covers mechanics topics with a calculus lens in a self-paced/teacher-guided online format. These topics are Kinematics, Newton's Laws, Work/Energy/Power, Momentum, Rotation, and Oscillations. Successful completion of this program will adequately prepare students for the AP Physics C-Mechanics exam in the spring and is a strong preparation course for the year-long AP Physics Electricity and Magnetism calculus-based course students could take the following year. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Students complete self-study units using instructor created videos, online simulations, labs with common household items, and a college textbook. Formative online assessments and online homework help students know how they are progressing with the material. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam. Although students have flexibility within the units, each unit has a specified deadline for summative assessments.

Recommended Background for Success:
Students who would like flexibility in their schedules and are self-motivated would be a good fit for this online science course. Prior completion of, or current enrollment in AP Physics 1 AND a calculus course is required.

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AP PHYSICS C–ELECTRICITY & MAGNETISM WITH TOPICS IN MODERN PHYSICS

This course completes 1.0 towards the Science credit.

Course #AP324, S1
Course #AP326, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Calculus course and AP Physics 1 (or another physics course with teacher recommendation). AP Physics C-Mechanics Online is highly recommended but not required.

Course Description:
AP Physics C-Electricity & Magnetism is equivalent to a second semester calculus-based college physics course. The course will be taught as a year-long course so that students can develop a greater understanding of the following content areas: electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields (along with Maxwell's Equations). Inquiry-based labs (and simulations) and problem solving strategies will be used throughout the course to develop critical thinking and lab skills. Successful completion of this course will prepare students for the AP Physics C-Electricity & Magnetism exam in May. The course will also include an introduction to topics in Modern Physics such as nuclear reactions, particle physics, and relativity. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, reading assignments, problem solving, lab activities/ projects, demonstrations, videos, and computer simulations. Assessments include tests, lab write-ups, quizzes, homework, projects, and final exam.

Recommended Background for Success:
Students should be prepared for a collegiate level, calculus-based, physics course by completing the math and physics prerequisites.

AP HUMAN GEOGRAPHY

Course #AP200, S1, grade 9
Course #AP202, S2, grade 9
Course #AP212, S1 or S2, grades 11-12

Grade 9:
Credits: .5 (year-long course)
Prerequisites: B+ or better in 8th grade English and Social Studies

Grades 11-12:
Credits: .5 (taught as a one-semester course)
Prerequisites: Ability to read and write at the college level

Course Description:
Human Geography is the study of humans and their interaction with their surroundings. An emphasis on spatial concepts and landscape analysis to examine human social organization and its environmental consequences are the guiding ideas behind this course. Using global examples, students will study topics such as population, the political organization of space, agriculture, development, culture and industrial processes. Maps and spatial data will be frequently used to study various regions at difference scales. In addition, students must be willing and able to work with college-level materials. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods /Assessments:
Instructional methods include lecture, interactive discussion on readings and activities, individual and group case studies, research and analysis of geographical, historical and sociological course material, statistical analysis, and map work. Assessments include multiple choice exams, in-class essay exams, formal papers, individual and group projects, case studies and geographical analysis.

Recommended Background for Success:
This course is recommended for students who are interested in pursuing AP and IB courses. Students should have a record of performing at an "A" or high "B" level in both Social Studies and English. A strong ability to read and write is beneficial.

AP UNITED STATES HISTORY

Course #AP204, S1
Course #AP206, S2

Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Human Geography and Civics; AP Human Geography

Course Description:
Students complete advanced level reading, writing, and analysis on topics in the history of the U.S. Reading assignments come from a college-level text, and students work with others to become more skilled at writing historical essays. This course emphasizes the years 1607 to 2000. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include readings, discussions, lectures, group work, debates, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports, class participation, and AP test for college credit.

Recommended Background for Success:
Ability to do college-level reading. Particularly recommended for those with "A" or "A-" in 9th grade social studies and who have scored at least 90% on the state reading standards tests.

AP EUROPEAN HISTORY

Course #AP208, S1
Course #AP210, S2

Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Contemporary U.S. Hist; AP U.S. History; American Studies 10 Honors (B or better)

Course Description:
This class will survey the major trends and events in European history from the Renaissance (1350) to present day. The course is structured using a collegiate model and the expectations mirror the structure. The student should be prepared to complete college level material. This class requires commitment and hard work the entire length of the academic year. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include interactive discussions on readings, collegiate model lectures, student presentations, individual and group case studies, research, and analysis of primary source material. Assessments include multiple choice exams, in-class essay exams, formal papers, historical analysis, individual projects, group projects, group tests, and daily work.

Recommended Background for Success:
Completion of AP American History, or an interest in an in-depth college level course, and record of performing at an "A" or high "B" level in both Social Studies and English.

TONKA ONLINE AP WORLD HISTORY

Course #T120*, part 1, Tonka Online
Course #T122*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grades Offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Contemporary U.S. History; AP U.S. History; American Studies 10 Honors (grade B or better)

Course Description:
Students complete advanced level reading, writing, and analysis on topics in World History. Reading assignments come from a college-level text, and students work to become more skilled at answering stimulus-based multiple choice exams and short answer questions and writing historical essays. The AP World History course begins

Advanced Placement (AP)

with the period "to 600 BCE" and ends in the present day. The class is divided into manageable periods and the class will also focus on mastery of skills critical to the AP World History exam. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include readings, discussion boards, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports and online class participation.

Recommended Background for Success:
Completion of AP U.S. History or American Studies 10 Honors, an interest in an in-depth, college-level course, and record of performing at an "A" or "high B" level in social studies courses.

AP U.S. GOVERNMENT AND POLITICS

Course #AP214
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course covers a body of knowledge equivalent to what a student would be expected to master in an introductory one-semester college course in American Politics. Through readings, research, discussions, field experiences, and media presentations, students will study political ideologies, parties, campaigns, elections, interest groups, bureaucracy, civil liberties, role of the media, the judicial, legislative and executive processes, and the creation of public policy. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussions, cooperative learning, library research, individual and group projects, simulations, guest speakers, videos, exposure to a variety of resources and reading materials both primary and secondary in nature, and writing assignments. Assessments include daily work, multiple choice tests, essay tests, quizzes, projects, individual and group presentations, and analytical writing assignments.

Recommended Background for Success:
This course is recommended for students who have effective study skills, the ability to read and comprehend material written on a college level, basic knowledge of U.S. history and government, the ability to work and think independently and critically, willingness to work in cooperative settings, and strong writing skills.

AP COMPARATIVE GOVERNMENT

Course #AP216
Course T140*, Tonka Online
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This college level course analyzes the political systems of the United Kingdom, Russia, China, Mexico, Nigeria and Iran. By examining these six countries, students will develop an understanding of political concepts and themes, become proficient at comparing and contrasting different political processes and behaviors and be able to analyze and interpret current political developments in these countries. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include discussions, lecture, exposure to and assessment of current articles and book excerpts, written activities, group work, presentations, class debate and guest speakers. Assessments include tests, quizzes, in-class written essays, case studies, formal papers, presentations and summaries of opinions on relevant articles and current issues.

Recommended Background for Success:
Students should demonstrate an ability to read college-level materials. Interest in and desire to learn more about the global environment we now live in.

AP MACROECONOMICS

Course #AP218
Course #T136*, Tonka Online
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Students will study economic growth, inflation, unemployment, foreign trade, monetary, and fiscal policies at a college freshman level. Lessons are designed to assist students who wish to take the Advanced Placement test for college credit. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lecture, class discussion, simulations, individual and group activities. A variety of assessments are employed including tests, quizzes, daily work, projects, and both individual and group activities.

Recommended Background for Success:
Students should demonstrate an ability to read college level material, basic math skills, and the ability to express thoughts.

AP PSYCHOLOGY

Course #AP220
Course #T108*, Tonka Online
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Psychology AP is designed for the student who desires to cover the same content as Psychology 2220 G; however, the tests and assignments are very different. This AP class is a college-level Introduction to Psychology using a college text, "collegiate-style" pace and classroom climate, and college-level exams. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussions, class demonstrations, group activities, case studies, videos, experiments, labs, and focus projects. Assessments include focus projects, exams (objective and essay) and test corrections activities.

Recommended Background for Success:
Students should have good reading skills and strong study skills.

AP PSYCHOLOGY HYBRID

Hybrid Course
Course #AP222
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description: Same as above

Instructional Methods/Assessments:
The basic instructional structure will combine in-class elements with online learning modules. The classroom methodology will focus on discussion, demonstrations, group activities, experiments and projects. Students will use online tools through Schoology to access lectures, discussion boards, collaborative projects, research and reflection journals. Assessments will vary between in-class and online platforms based on the purpose of each. It is expected that students electing this course will take the AP exam, for which there is a fee.

Recommended Background for Success:
Students should be strong readers and have the ability to focus on academic pursuits in an online environment. In addition, students should have some technical proficiencies and an interest in online learning.

Advanced Placement (AP)

AP FRENCH V

Course #AP500, S1
Course #AP502, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: French IV Honors

Course Description:
The main focus of this course is to prepare students for success on the Advanced Placement test in French. This course is heavily focused on refining and implementing all previously learned grammar points and verb tenses, including complex tenses such as the pluperfect, literary past, conditional past, and future perfect. Students will gain confidence in their ability to communicate orally and through written texts. Cultural units will be explored according to student interest. The over-arching goal of this course is for students to reach their greatest level of fluency and to prepare them for a successful transition into university-level language study. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:
Good study habits and self-discipline.

AP SPANISH V LANGUAGE & CULTURE

Course #AP504, S1
Course #AP506, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Spanish IV Honors

Course Description:
The main focus of this course is to prepare students for success on the Advanced Placement test in Spanish. This course is heavily focused on refining and implementing all previously learned grammar points and verb tenses, including complex tenses such as the imperfect subjunctive and the perfect tenses. Students will gain confidence in their ability to communicate orally through use of Audacity and through written texts. Cultural units will be explored according to student interest. The ultimate goal of this course is for students to reach their greatest level of fluency and to prepare them for a successful transition into university-level language study. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive drill/practice, paired activities, small group activities, Audacity, writing assignments (in alignment with AP standards) games, listening exercises, songs, films and oral presentations. Assessments include oral and written assessments, listening exercises, homework and special projects. A variety of AP related assessments are used in preparation for the AP exams in the spring.

Recommended Background for Success:
Students must have completed Spanish IV Honors with a high level of success. Students wishing to take V AP that are not coming from the IV Honors course may do so with permission from the instructor only.

AP CHINESE LANGUAGE AND CULTURE (IMMERSION)

Course #IM104, S1
Course #IM106, S2
Grade(s) offered: 9-10
Credits: .5 (per semester)
Prerequisites: K-8 Chinese Immersion enrollment, Intermediate Mid-High Spring (5/6) STAMP score recommended

Course Description:
This course is designed for Chinese Immersion Language continuation. The main focus of this course is to prepare students for success on the Advanced Placement exam in Chinese. The course is heavily focused on refining and implementing all previously learned material. Students will gain confidence in their ability to communicate orally through use of Audacity and through written texts. Cultural units will be explored according to student interest. The ultimate goal of this course is for students to reach their greatest level of fluency and achieve ADVANCED/HIGH ACTFL proficiency standards by the end of high school. Students who are successful in this course will be encouraged to pursue the IB Bilingual Diploma or other advanced courses (i.e., AP Lit, VANTAGE, or additional elective options). It is expected that students electing this course will take the AP exam, for which there is a fee.

AP SPANISH LANGUAGE AND CULTURE (IMMERSION)

Course #IM204, S1
Course #IM206, S2
Grade(s) offered: 9-10
Credits: .5 (per semester)
Prerequisites: K-8 Spanish Immersion enrollment, Intermediate Mid-High Spring (5/6) STAMP score recommended

Course Description:
This Spanish immersion language arts course focuses on refining and implementing all previously learned language and grammar topics through the analysis of literature and other authentic resources. The course uses cultural units, literature, presentations, current events studies, and listening and reading practices to help ensure students are prepared to be successful on the AP exam, for which there is a fee. The ultimate goal of this course is for students to reach their greatest level of fluency and achieve ADVANCED/HIGH ACTFL proficiency standards by the end of high school.

VANTAGE: BUSINESS ANALYTICS

Course #V100
Grade(s) offered: 11-12
Credits: 2.0
Earning credit for AP Statistics (math credit) and IB Business Management SL/HL (elective credit)
Prerequisites: Interest in business and/or statistics; application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 116

VANTAGE: BUSINESS IN A GLOBAL ECONOMY

Course #V102
Grade(s) offered: 11-12
Credits: 3.0
Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL (elective credit)
Prerequisites: Interest in global business; application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 117

VANTAGE: HEALTH SCIENCES

Course #V200
Grade(s) offered: 11-12
Credits: 3.0
Earning credits in AP Psychology (social studies credit), Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)
Prerequisites: Physical science; algebra; interest in healthcare or sports medicine and science; Chemistry strongly recommended. Application process. Apply at www.TonkaVANTAGE.com
Course Description: see page 118

VANTAGE: GLOBAL FOOD SUSTAINABILITY: ECONOMICS AND THE ENVIRONMENT

Course #V300
Grade(s) offered: 11-12
Credits: 2.0
Earning credit for AP Environmental Science (science credit) and Global Studies & Economics (social studies credit)
Prerequisites: Biology G, AP Biology or IB Biology SL. Interest in sustainability. Application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 119

Art

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5	4002	Introduction to Studio Art	None	9-12
.5	4006	Photography I	None	9-12
.5	4008	Photography II	Successful completion of Photography I (grade B- or better)	9-12
.5	4010	Photography III	Successful completion of Photography II (grade B- or better)	10-12
.5	T802*	Digital Photography, Tonka Online *Select Term: T802S / T802F / T802W	None	9-12
.5	4016	Painting I	Drawing I Strongly Recommended	9-12
.5	4018	Painting II	Successful completion of Painting I (grade B- or better)	9-12
.5	4020	Painting III	Successful completion of Painting II (grade B- or better)	10-12
.5	4022	Jewelry I	None	9-12
.5	4024	Jewelry II	Successful completion of Jewelry I (grade B- or better)	9-12
.5	4026	Jewelry III	Successful completion of Jewelry II (grade B- or better)	10-12
.5	4042	Drawing I	None	9-12
.5	4044	Drawing II	Successful completion of Drawing I (grade B- or better)	9-12
.5	4046	Drawing III	Successful completion of Drawing II (grade B- or better)	10-12
.5	T804*	Drawing, Tonka Online *Select Term: T804S / T804F / T804W	None	9-12
.5	4075	Digital Drawing I	None	9-12
.5	4076	Digital Drawing II	Successful completion of Drawing I (grade B- or better)	9-12
.5	4077	Digital Drawing III	Successful completion of Drawing II (grade B- or better)	10-12
.5	4048	Ceramics I	None	9-12
.5	4050	Ceramics II	Successful completion of Ceramics I (grade B- or better)	9-12
.5	4052	Ceramics III	Successful completion of Ceramics II (grade B- or better)	10-12
.5	4060	Commercial Art & Design	None; Suggested Drawing I and II and Introduction to Studio Art	9-12
.5	4062	Cartoon Illustration I	None	9-12
.5	4064	Cartoon Illustration II	Successful completion of Cartoon Illustration I (grade B- or better)	9-12
.5	4066	Cartoon Illustration III	Successful completion of Cartoon Illustration II (grade B- or better)	10-12
.5	T800F	AP Art History, Tonka Online	None	10-12
.5	AP602	AP Studio Art	Successful completion of two or more semesters of art; Drawing highly recommended	11-12
.5	4090	Video Production I	None. This course may also be taken through VANTAGE #V600	9-12
.5	4092	Video Production II	Successful completion of Video Production I (grade B- or better)	9-12
.5	4094	Video Production III	Successful completion of Video Production II (grade B- or better)	10-12
.5	4096	Digital Imaging I	None	9-12
.5	4098	Digital Imaging II	Successful completion of Digital Imaging I (grade B- or better)	9-12
.5 .5	IB700 IB702	IB Visual Arts SL, S1 IB Visual Arts SL, S2	None	11-12

Art

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	IB704 IB706	IB Visual Arts HL Year 1, S1 IB Visual Arts HL Year 1, S2	None	11
.5 .5	IB708 IB710	IB Visual Arts HL Year 2, S1 IB Visual Arts HL Year 2, S2	IB Visual Arts HL Year 1	12
2.0	V104	**VANTAGE: Design + Marketing:** Earning credits in Graphic and Product Design I and II (art elective) and Marketing I and II (business elective)	Interest in design and marketing Application process (see page 117 for course description)	11-12
2.0	V600	**VANTAGE: Digital Journalism** Earning credits in Video Production (arts credit), Communication Theory and Practice (required English credit)	Interest in digital journalism Application process See page 119 for course description	11-12

All visual art courses strive to nurture innovative thinking, creativity, problem solving and to improve skills in communication. Courses teach forms of artistic expression through the four disciplines of the visual arts:

Art Production:	Making art
Art Criticism:	Describing, analyzing, interpreting and evaluating art
Art History:	Understanding art in relationship to culture
Aesthetics:	Recognizing important features of visual arts and responding to them

Students taking visual art classes have an opportunity for production experiences with a variety of art media. For those wishing to concentrate in a particular art medium, level two and three classes are offered. Level two courses are more in depth and level three courses are designed for students wishing to develop a college portfolio and/or pursue a career in the visual arts. Varying student fees are a part of each art course. All art courses on this page earn credit toward completing the art credit graduation requirement.

INTRODUCTION TO STUDIO ART

Course #4002

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Highly recommended as first art course

Course Description:
This course serves as an introduction to the MHS studio arts program. Intro to Studio Arts is designed to provide a variety of art experiences for students wishing to explore the possibilities of art. Students will have production experiences with a variety of materials and techniques, which may include: drawing, painting, printmaking, graphics, ceramics, photography and sculpture. The emphasis will be on developing ideas and themes for art projects that have meaning and expressive value for the artist/audience. The class may also help students determine which art classes to enroll in for the future.

Instructional Methods/Assessments:
Instructional methods include lectures, demonstrations, hands-on studio work, project handouts, PowerPoint presentations, sketchbook drawings and assigned journal writings, critiques and discussions. Assessments include completion and quality of work, sketch book drawings and assigned writings, participation in critiques and discussions, work ethic, and responsibility for materials and equipment.

Recommended Background for Success:
Students need good work habits, a willingness to make good use of time, to put good effort into new experiences and patience with the whole process. This course is highly recommended as a first course for 9th grade students.

PHOTOGRAPHY I

Course #4006

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Students will learn to operate a manual 35mm SLR camera (and use of iPads), develop film, and print traditional black and white enlargements. Manipulation of camera controls and lighting conditions will be taught, enabling students to use photography as a creative outlet and expression of self. Knowledge students gain may also be applied to digital photography. Students will acquire skills in expressing their feelings and opinions about works of their own, classmates, and photographic artists through viewing, writing, discussion and critique. An overview of the history of photography and influential photographer s from all genres will be explored. Photo genres covered include stop action motion, depth of field, landscape/cityscape, still life, portraiture and more.

Instructional Methods/Assessments:
Instructional methods include lectures and demonstrations, digital presentations, project handouts, and hands-on studio work. Assessments include completion and quality of projects, critique (individual and group), written assignments, quizzes and progress checks.

Recommended Background for Success:
Students must have the ability to use time wisely, be self-motivated, and have a sincere desire to explore this medium for visual expression. Respect for equipment is essential. A limited number of 35mm SLR cameras are available for student use. It is highly recommended that students have their own cameras.

PHOTOGRAPHY II

Course #4008

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Photo I with a B- or better

Course Description:
Students will work on improving artistic and

technical skills learned in Photography I. Advanced techniques and special processes that push the exploration of media and conceptual development are crucial at this level. Students will continue to develop skills in expressing ideas and opinions about art. Topics explored include experimental darkroom techniques, sepia and cyanotype prints, advanced portraiture and photojournalism. Students will also begin to compile their best work in portfolio form to show progress and development as artists. The emphasis will be on traditional black and white photography, though an option for some portfolio pieces to be done digitally will be offered.

Instructional Methods/Assessments:
These include lectures and demonstrations, project handouts, hands-on studio work, digital presentations, photo magazines and books, websites, critique, occasional field trips, and guest speakers. Assessments include completion and quality of projects, artist statements, critique (individual and group), written assignments and progress checks.

Recommended Background for Success:
Students should learn general knowledge of art elements and composition, working knowledge of photo and darkroom processes, and the ability to set and maintain personal work goals. A limited number of 35mm SLR cameras are available for use, but a personal camera is highly beneficial.

PHOTOGRAPHY III

Course #4010

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Photo II with a B- or better

This course may be repeated for further study with teacher approval.

Course Description:
This course is designed for the highly motivated photography student wishing to develop a college portfolio and/or pursue a career in the arts. Students will have the opportunity to design individualized projects that challenge them to develop their own creative style and direction in photography. Students will research a variety of special techniques and processes and then create images using the knowledge gained. Students will have the option to work with color film, digital mediums and larger film formats as well. Topics explored include nationalism, narrative still life, and independent proposal projects. Students will also be encouraged to submit work to art competitions and exhibits. Students will complete a digital portfolio website of their work by the end of the course.

Instructional Methods/Assessments:
These include lectures and demonstrations, project handouts, hands-on studio work, digital presentations, photo magazines and books, websites, critique, occasional field trips and guest speakers. Assessments include completion and quality of projects, artist statements, critique (individual and group), written assignments and progress checks.

Recommended Background for Success:
Students should be highly motivated and serious about the study of photography. Students should have basic knowledge of elements and principles of design, photo and darkroom processes, and the ability to set and maintain personal work goals. A limited number of 35mm SLR cameras are available for use, though it is highly recommended that students have their own cameras.

TONKA ONLINE DIGITAL PHOTOGRAPHY

Course #T802*, Tonka Online
***Select term S=summer, F=fall, W=winter**

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will introduce students to digital photography and the use of other digital technology as a means for self-expression in art. Students will learn basic digital camera operation, printer techniques and electronic darkroom basics. Students will be introduced to a variety of approaches to subject matter, as well as art criticism in a historical and cultural context in order for students to begin to develop a critical vocabulary. This is a great course for students seeking a career in advertising and graphic design as students will learn how to manipulate images using industry standard programs like CS6 Adobe Photoshop. Projects will be theme-based with specific requirements blending technical skills with the creative process.

Instructional Methods/Assessments:
Methods include online demonstrations, lab/studio work, individual projects and daily progress logs. Assessment is done through self, peer and teacher assessments during class critiques using an online format, projects, class discussions (through Schoology), technical tests and exhibitions.

Recommended Background for Success:
Students need an interest in working with computer and digital camera technology as a medium for artistic expression. Students must be self-motivated, creative and willing to work individually and collaboratively in teams. A limited number of cameras will be available to check out. It is highly recommended students have access to a camera of their own if taking the online option. Proficient Schoology and Google Drive use is recommended.

PAINTING I

Course #4016

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Drawing I strongly recommended

Course Description:
Painting with acrylic paint is an introduction to one of the most respected art forms. The course begins with a unit on color theory, art terms and a focus on strong composition. Acrylics lend themselves to a variety of techniques that will be explored through different painting assignments that range from landscapes to portraits. A variety of painting surfaces will be used including paper, wood and canvas board.

Instructional Methods/Assessments:
Demonstrations and presentations will be made at the beginning of class. Examples of famous paintings, artists and styles will be shown. Assessment is based on the quality of completed work in painting the degree of involvement (use of time) in class, work completion and general cooperation in the room.

Recommended Background for Success:
It is helpful to have some drawing skills, as it will be necessary to make sketches or compositions for each painting. Students who are reluctant to draw may have difficulty in this class.

PAINTING II

Course #4018

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Painting I with a B- or better

Course Description:
In Painting II more attention is placed on technical excellence and experimenting with different painting mediums. Students are assisted in developing more personalized paintings. Painting styles are explored and techniques are researched according to each student's interests and needs. Issues of art criticism and evaluation help gain better understanding of what happens in the creative process.

Instructional Methods/Assessments:
The instructor will work closely with individual students to help them develop ideas, compositions and techniques that are appropriate for each student. Other instructional methods will be used as necessary (see Painting I). Assessment is based upon degree of involvement, quality of preliminary sketches, participation in critiques, group participation, cooperation, painting production, and completion of work.

Recommended Background for Success:
Familiarity with painting with acrylics is essential. Good drawing skills and knowledge of color mixing and color theory will also be helpful to the student.

PAINTING III

Course #4020

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completion of Painting II with a B- or better

This course may be repeated for further study with teacher approval.

Course Description:
This course is designed for the highly motivated art student wishing to develop a college portfolio and/or pursue a career in the visual arts. Painting III provides students with an opportunity to develop a personal direction through painting. Student directed work should be viewed as an opportunity for self-discovery through rigorous and sustained experimentation, moving towards the making of a coherent and cultivated series of paintings. A goal for Painting III is the development of personal vision and strategies for independent studio practices. Research of artists and styles will be essential to the growth of the student. Students will complete a digital portfolio of their work by the end of the semester.

Instructional Methods/Assessments:
Demonstrations, studio work, artist research, independent and individual projects, and the development of a portfolio. Assessment is based upon a degree of involvement, participation in critiques, problem-solving and completion of work.

Recommended for Success:
A strong base in acrylic painting techniques is essential. A willingness to explore different painting mediums. Good drawing skills and knowledge of color mixing and color theory is helpful.

JEWELRY I

Course #4022

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will introduce students to traditional jewelry making techniques. This course is designed so that students learn jewelry techniques in an easy step-by-step manner. Students will use silver, copper and brass to learn cutting, shaping, silver soldering and other metalworking techniques. Handmade rings, broaches, earrings and pendants are some items made in this class.

Instructional Methods/Assessments:
These include demonstrations, studio work, quizzes/tests and individual projects. Assessment is based upon degree of involvement, participation in critiques, problem-solving and completion of work.

Recommended Background for Success:
Small motor skills. An interest in how raw materials such as brass, copper and silver become finished pieces of jewelry. Students should have an interest in using tools and working with their hands.

JEWELRY II

Course #4024

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Jewelry I with a B- or better

Course Description:
In this course, students are expected to utilize traditional jewelry making techniques learned in Jewelry I. Students will learn more complex and difficult metalworking and casting techniques. There will be an emphasis in researching different artists and techniques to aid designs. Complex castings, different stone settings and reticulated pendants and broaches are some of the items made.

Instructional Methods/Assessments:
These include demonstrations, studio work, quizzes/tests and individual projects. Assessment is based upon degree of involvement, participation in critiques, problem-solving and completion of work.

Recommended Background for Success:
Small motor skills. An interest in how raw materials such as brass, copper and silver become finished pieces of jewelry. Students should have an interest in using tools and working with their hands.

JEWELRY III

Course #4026

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completion of Jewelry II with a B- or better

This course may be repeated for further study with teacher approval.

Course Description:
This course is designed for the highly motivated art student wishing to develop a college portfolio and/or pursue a career in the visual arts. Projects will be individualized for each student. Using techniques learned in Jewelry I & II, students will improve problem-solving, craftsmanship and design skills to complete advanced level projects. Students will complete a digital portfolio of their work by the end of the course.

Instructional Methods/Assessments:
Demonstrations, studio work, independent and individual projects, and the development of a portfolio. Assessment is based upon degree of involvement, participation in critiques, problem-solving and completion of work.

Recommended Background for Success:
An interest and ability to work with small modeling materials, and an interest in developing a personal mastery of traditional casting and jewelry making.

DRAWING I

Course #4042

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will teach a basic understanding of multiple drawing skills. Students will be implementing these skills into a variety of techniques to turn out successful projects. A variety of drawing media will be used. Students will be working on a wide variety of subject matter in their assignments from a still life to portraiture. The "Art Elements and Principles," as well as research of topics, will guide students in the completion of fun and interesting assignments.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success.

Art

Critiques will help in problem-solving and in the development of ideas. Assessments are based on: observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
Students should have patience, be goal-oriented and have an eye for detail. Seeing how light and shadows are used to make a drawing powerful is very important.

DRAWING II

Course #4044

This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Drawing I grade B- or better

Course Description:
Students will continue to grow, further honing their skills and techniques learned in Drawing I. Students will be applying these skills and techniques to many new mediums including: textured papers, scratchboard, Plexiglas, etc. This is a research-based art class involving a lot of observation and retrieval of visual aids from printed formats to online searches. Students will put together various project packets which will include: thumbnail and comprehensive sketches, photographs, field studies and final drawings.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success. Occasional peer critique sessions will help in problem-solving and in the development of ideas. Assessment is based on: observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
Students should have patience, strong organizational skills, a good work ethic and an eye for implementing "The Art Elements and Principles" accordingly.

DRAWING III

Course #4046

This course completes .5 towards the Arts credit
Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completion of Drawing II with a B- or better
Course may be repeated with teacher approval.

Course Description:
This course is designed for the highly motivated art student wishing to develop a college portfolio and/or pursue a career in the visual arts. Students will be implementing skills, techniques and mediums learned in Drawing I & II. Students will also focus on researching and gathering visual aids to help develop finished projects worthy of display and/or competition. Students will learn and execute mounting techniques and matte cutting for including work in a professional/college portfolio. Every student will complete a digital portfolio of their work by the end of this course.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success. Occasional peer critique sessions will help in problem-solving and in the development of ideas. Assessment is based on: observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
Students should have a great work ethic, patience and a very strong desire to make their artwork into something that will be noticed.

TONKA ONLINE DRAWING

Course #T804*, Tonka Online
***Select term S=summer, F=fall, W=winter**

This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will teach a basic understanding of multiple drawing skills. Students will be implementing these skills into a variety of techniques to turn out successful projects. A variety of drawing media will be used. Students will be working on a wide variety of subject matter in their assignments from a still life to portraiture. The "Art Elements and Principles," as well as research of topics, will guide students in the completion of fun and interesting assignments.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success. Critiques will help in problem-solving and in the development of ideas. Assessments are based on: Daily progress photos submitted to Schoology, quizzes, observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
Students should have patience, be goal-oriented and have an eye for detail. Seeing how light and shadows are used to make a drawing powerful is very important.

DIGITAL DRAWING I

Course #4075

This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will teach a basic understanding of multiple drawing skills using the Intuos Wacom tablets. Students will be implementing these skills into a variety of techniques to turn out successful projects. Adobe Photoshop will be used to create finished works of art. Students will be working on a wide variety of subject matter in their assignments. The Art Elements and Principles, as well as research of topics, will guide students in the completion of fun and interesting assignments.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success. Occasional peer critique sessions will help in problem-solving and in the development of ideas. Assessment is based on: observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
This course is technology based and will be done using computers for a majority of the work. Students should have patience, be goal-oriented and have an eye for detail. Seeing how light and shadows are used to make a drawing powerful is very important.

DIGITAL DRAWING II

Course #4076

This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Drawing I grade B- or better

Course Description:
Students will continue to grow, further honing their skills and techniques learned in Digital Drawing I. Students will be applying these skills and techniques using advanced Adobe Photoshop capabilities. Students will learn how to take a conceptual approach to creating a drawing and learn to create meaning in their art. Students will continue to develop projects using thumbnail sketches, photographs and research for their drawings.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to

strengthen student understanding and success. Occasional peer critique sessions will help in problem-solving and in the development of ideas. Assessment is based on: observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
This course is technology based and will be done using computers for a majority of the work. Students should have patience, strong organizational skills, a good work ethic and an eye for implementing the Art Elements and Principles accordingly.

DIGITAL DRAWING III

Course #4077

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completion of Drawing II with a B- or better

This course may be repeated for further study with teacher approval.

Course Description:
This course is designed for the highly motivated art student wishing to develop a college portfolio and/or pursue a career in the visual arts. Students will be implementing skills, techniques and mediums learned in Digital Drawing I & II. Students will also focus on researching and gathering visual aids to help develop finished projects worthy of display and/or competition. Students will learn and execute mounting techniques and matte cutting for including work in a professional/college portfolio. Every student will complete a digital portfolio of their work by the end of this course.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success. Occasional peer critique sessions will help in problem-solving and in the development of ideas. Assessment is based on: observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
This course is technology based and will be done using computers for a majority of the work. Students should have a great work ethic, patience and a very strong desire to make their artwork into something that will be noticed.

CERAMICS I

Course #4048

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This is a three-dimensional art course that teaches basic understanding and implementation of skills and techniques of working with clay. Students will learn additive and subtractive techniques, with an emphasis on skills and techniques in wheel-thrown and hand-built pottery. Students will create functional works of art like vases, pitchers, teapots, mugs and bowls.

Instructional Methods/Assessments:
Methods include demonstrations, studio work, and professional/student examples. Assessment is based upon project criteria, participation in critiques, problem-solving and completion of work.

Recommended Background for Success:
Students should have an interest in the three-dimensional art form of working with clay and glazing.

CERAMICS II

Course #4050

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Ceramics I grade B- or better

Course Description:
Ceramics II is designed for the highly motivated ceramics student wishing to further develop and expand on basic pottery wheel-throwing and hand-building skills. The focus of this course is on repetition in creating sets, exploring glaze and slip decoration as well as applying creative sculptural elements to basic pottery forms. Students will research professional potters' work in order to challenge and enhance their own creative products.

Instructional Methods/Assessments:
Methods include demonstrations, studio work and professional/student examples. Demonstrations and lectures will be enhanced through the use of technology to strengthen student understanding. Assessment is based upon project criteria, participation in critiques, problem-solving and completion of work.

Recommended Background for Success:
Students who have excelled in Ceramics 1 and have an interest in advancing skill development in pottery.

CERAMICS III

Course #4052

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completion of Ceramics II with a B- or better

This course may be repeated for further study with teacher approval.

Course Description:
Ceramics III is designed for the highly motivated ceramics student wishing to develop a college portfolio and/or pursue a career in the visual arts. The course allows the student to continue the study of three-dimensional wheel and hand-building skill development while experimenting with decorating and glazing techniques. Students may also choose to work totally from a sculptural approach. Students will complete a digital portfolio of their work by the end of the course.

Instructional Methods/Assessments:
Methods include demonstrations, studio work and professional/student examples. Demonstrations will be done through the use of technology to strengthen student understanding. Assessment is based upon self-improvement, participation in critiques, problem-solving and completion of work. Students will need a strong work ethic to take a more self-directed role in research and production.

Recommended Background for Success:
Students will need the willingness to experiment and learn new skills as well as the energy and motivation to successfully complete projects.

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COMMERCIAL ART & DESIGN

Course #4060

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None; Suggested Drawing I and II & Intro to Studio Art

Course Description:
Explore the elements of design needed to create artwork for commercial application. Students will use drawing and computer applications to design logos, illustrate stories and create package designs, such as CD jackets. Students will learn to use Adobe Photoshop and Illustrator to complete projects. Students will have the opportunity to meet local commercial artists to gain insights into career opportunities.

Instructional Methods/Assessments:
Methods include demonstrations, lab/studio work, sketchbook, individual and group projects. Assessments include completion and quality of projects, work ethic, participation and responsibility.

Recommended Background for Success:
Students should have experience and interest in furthering art skills, as well as knowledge of art elements and composition.

CARTOON ILLUSTRATION I

Course #4062

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
In this class, students will learn about the visual image, text, and culture through cartoon illustration and comic creation. Students will utilize the fundamentals of cartooning and comic design; art elements and principles, exaggeration, expression, tool use, and response. A variety of media including pen & ink, watercolor, acrylic paint, and colored pencil will be utilized. Students will utilize techniques learned from other cartoon and comic artists throughout history and apply these into their own comic stories.

Instructional Methods/Assessments:
Methods include lectures, demonstrations, digital presentations, project handouts, and historical accounts hands on studio work. Assessments include completion of quality projects, critique (individual and group), sketchbook ideation, written assignments, and progress checks.

Recommended Background for Success:
Students must have the ability to use time wisely, be self-motivated, and have a sincere desire to explore this medium of visual expression.

CARTOON ILLUSTRATION II

Course #4064

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Cartoon Illustration I with a B- or better

Course Description:
In this class, students will explore more about cartoon and comic design as well as develop a personal style and aesthetic. Students will learn more about developing establishing shots, comic lettering, creating more cohesive storylines, as well as the addition of animation. Through learning about comic and cartoon history, students will synthesize information into their own comic works, illustrations, and simple animated pieces. Students will use a variety of art media including but not limited to pen & ink, watercolors, colored pencil, acrylic paint, and iPad apps.

Instructional Methods/Assessments:
Instructional methods include lectures and demonstrations, digital presentations, project handouts, and hands-on studio work. Assessments include completion and quality of projects, critique (individual and group), sketchbook ideation, written assignments, and progress checks.

Recommended Background for Success:
Students who have excelled in Cartoon Illustration I, and have a sincere desire in advancing skill development. Students must have the ability to use time wisely and be self-motivated.

CARTOON ILLUSTRATION III

Course #4066

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completion of Cartoon Illustration II with a B- or better.

Curse may be repeated with teacher approval.

Course Description:
This course is designed for the highly motivated student wishing to develop a college portfolio and/or pursue a career in the visual arts. Students will be combining and implementing the skills, techniques and media learned in Cartooning I and II. Students will have the opportunity to design individualized projects that challenge them to develop their own creative style and direction in cartoon illustration/comics. Students will research a variety of special techniques and processes and then create artwork using the knowledge gained. Students will also be encouraged to submit work to art competitions and exhibits. Finally, every student will complete a digital portfolio of their work by the end of the course.

Instructional Methods/Assessments:
Instructional methods include lectures and demonstrations, digital presentations, project handouts, and hands-on studio work. Assessments include completion and quality of projects, critique (individual and group), written assignments, quizzes and progress checks.

Recommended Background for Success:
Students who have excelled in Cartoon Illustration I and II, and have a sincere desire in advancing skill development. Students must have the ability to use time wisely, show self-motivation and the ability to set and maintain personal work goals.

TONKA ONLINE AP ART HISTORY

Course #T800F, Tonka Online

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
In this Art History course you will acquire the tools enabling you to be conversant about any piece of art you encounter for the rest of your life, mastering how to approach a work of art, the vocabulary and analytical methods with which to discuss it, and the knowledge of how it fits into the general sweep of art historical periods and styles. AP Art History is designed as a college level course and students need to be prepared to keep up with the rigor of the material. Upon completion of the course students should be prepared are expected to take and pass the AP Art History test, for which there is a fee.

Instructional Methods/Assessments:
The text, Gardner's Art Through the Ages is our primary book, Khan Academy, and other online resources. We will meet at least once a month during MAST or zero hour to cover necessary curriculum, otherwise you will be submitting all other work online via Schoology. Visual aids—slides, prints, etc.—will be used for discussion of other cultures, styles, and works of individual artists. Assessment is based upon essays, discussions, quizzes and exams.

Recommended Background for Success:
Students should expect to participate actively by reading, writing, and discussing art ideas. The ability to write essays is a critical component of the AP exam.

AP STUDIO ART

Course #AP602

This course completes .5 towards the Arts credit

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Successful completion of two or more semesters of art; Drawing highly recommended

Course Description:
This course is for students who are considering post-secondary study in art and will focus on their options for future studies in fine, commercial, or applied art.

Instructional Methods/Assessments:
Students will prepare a portfolio of recent and/or current work, which demonstrates both breadth and quality. It is expected that students electing this course submit a portfolio to the College Board for evaluation in the early spring. This is primarily a studio course but includes units of art appreciation and art history. This course includes a large amount of independent work, along with group collaborations, lectures, and demonstrations. Students may focus their portfolio in any of the art areas: photography, ceramics, painting, jewelry, drawing, etc. Assessment is based upon degree of involvement, participation in critiques, group participation, problem solving, cooperation, completion of work, and journaling.

Recommended Background for Success:
The work submitted to the College Board for evaluation should reflect first year college standards. Students may take this course without submitting a portfolio, and portfolios are generally only accepted from high school juniors and seniors. Submission of the portfolio to the College Board is optional.

VIDEO PRODUCTION I

Course #4090
This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course is designed to introduce skills, methods, terminology and techniques of creative video production. Students will advance through the basics of writing, planning and producing video projects to editing, graphic preparation, audio techniques and possible live studio work. Student project will range from short commercials to a short film. All projects will have a strong artistic emphasis.

Instructional Methods/Assessments:
Methods include demonstrations, lab/studio work, group projects and video portfolio of projects. Assessments include participation, problem-solving, presentations and projects.

Recommended Background for Success:
Students should be interested in video production and technology. They should be self-motivated, creative and able to work in groups.

VIDEO PRODUCTION II

Course #4092
This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Video Production I with a B- or better

Course Description:
This course is designed to refine skills, methods, and techniques learned in Video Production I. Research of artist's styles and techniques will be done in order to help develop a personal style. Students will complete a series of challenging assignments to help them explore new techniques and possibilities. Assignments could include surreal videos, concept films and genre studies.

Instructional Methods/Assessments:
Demonstrations, lab/studio work, group projects and video portfolio. Assessments include participation individually and within a group, problem-solving, presentations and project completion.

Recommended Background for Success:
Students should have a strong interest in video production and technology. They should be self-motivated, creative and able to work in small groups successfully.

VIDEO PRODUCTION III

Course #4094
This course completes .5 towards the Arts credit
Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites Completion of Video Production II with a B- or better
This course may be repeated for further study with teacher approval.

Course Description:
This course is designed for the highly motivated student wishing to develop a college portfolio and/or pursue a career in the visual arts. Students will learn intermediate and advanced shooting and editing techniques through short films they will plan, script and storyboard. Video III students will practice at a high level to problem-solve and produce professional quality video productions. Research of producers and directors will be done to help create a personal style. Students will complete a digital portfolio of their work by the end of the course.

Instructional Methods/Assessments:
Demonstrations, lab/studio work, group projects and video portfolio. Assessments include participation, problem-solving, presentations and project professionalism.

Recommended Background for Success:
Students should have a strong interest in video production and technology. They should be self-motivated, creative and able to work in small groups successfully. Students should have a willingness and drive to exhibit their work at shows and competitions.

DIGITAL IMAGING I

Course #4096
This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will introduce students to digital photography and the use of other digital technology as a means for self-expression in art. Students will learn basic digital camera operation, printer techniques and electronic darkroom basics. Students will be introduced to a variety of approaches to subject matter, as well as art criticism in a historical and cultural context in order for students to begin to develop a critical vocabulary. This is a great course for students seeking a career in advertising and graphic design as students will learn how to manipulate images using industry standard programs like CS6 Adobe Photoshop. Projects will be theme-based with specific requirements blending technical skills with the creative process.

Instructional Methods/Assessments:
Methods include demonstrations, lab/studio work, and individual and group projects. Assessment is done through self, peer and teacher assessments during class critiques, projects, class discussions, observation, technical tests and exhibitions.

Recommended Background for Success:
Students need an interest in working with computer and digital camera technology as a medium for artistic expression. Students must be self-motivated, creative and willing to work individually and collaboratively in teams.

DIGITAL IMAGING II

Course #4098
This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completion of Digital Imaging I with a B- or better

Course Description:
Students will expand upon their basic knowledge of digital image-making concepts and techniques, allowing for in-depth exploration as they develop a personal vision in their artwork. Students will learn advanced skills, techniques and theory to strengthen and expand their knowledge of contemporary art concepts to apply to their own work. Students will learn how to operate Digital SLR cameras in order to allow for more control over their compositions. This course will expand

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on student knowledge of digital imaging history through their research of numerous artists from different periods. Students will develop artist's statements as they become aware of their personal working methods and style.

Instructional Methods/Assessments:
Methods include demonstrations, lab/studio work, and individual and group projects. Assessment is done through self, peer and teacher assessment during class critiques, projects, class discussions, observation, technical tests and exhibitions.

Recommended Background for Success:
Students must have a genuine desire to further explore this medium for visual artistic expression. Students must be self-motivated, creative and willing to work collaboratively in teams.

IB VISUAL ARTS SL & HL

SL Course #IB700, S1
SL Course #IB702, S2
HL Course #IB704, S1 Year 1
HL Course #IB706, S2 Year 1
HL Course #IB708, S1 Year 2
HL Course #IB710, S2 Year 2
Grade(s) offered: 11-12
Credits: SL=1 credit course
HL=2 credit course
.5 (per semester)
Prerequisites: None

Course Description:
Visual Arts SL: This one-year visual arts IB course follows a cultural approach to the visual arts in which research and art making is emphasized. This course links the core elements of art concepts, criticism and analysis, acquisition of technical and media skills, and the relationship of art to socio-cultural and historical contexts. Self-directed projects integrate work in the studio with workbook research. Students will create a portfolio of both two- and three-dimensional studio work building technical and media skills. Students maintain an investigation workbook detailing their plans, problems, successes, and critiques of studio work that they have produced. This course also fulfills the one credit art requirement for graduation from Minnetonka High School. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Visual Arts HL: The two-year visual arts IB course follows a cultural approach to the visual arts in which the process is equal to the product. This course continues to build the core elements of art concepts, criticism and analysis, acquisition of technical and media skills, and the relationship of art to socio-cultural and historical contexts from HL year one to HL year two. Self-directed projects integrate work in the studio with workbook research. Students will create a portfolio of both two- and three-dimensional studio work building technical and media skills. Development of a theme will be deepened during the second year. Students maintain an investigation workbook detailing their plans, problems, successes, and critiques of studio work that they have produced. This course also fulfills the one credit art requirement for graduation from Minnetonka High School. It is expected that students electing this course will take the IB exam, for which there is a fee.

VANTAGE: DESIGN + MARKETING

Course #V104
Grade(s) offered: 11-12
Credits: 2.0
Earning credits in Graphic and Product Design I and II (art elective) and Marketing I and II (business elective)
Prerequisites: Interest in design and marketing. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 117

VANTAGE: DIGITAL JOURNALISM

Course #V600
Grade(s) offered: 11-12
Credits: 2.0
Earning credits in Video Production (arts elective) and Communication Theory and Practice (required English credit)
Prerequisites: Interest in digital journalism. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 119

Business

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
COMPUTERS & TECHNOLOGY				
.5	4146	Webpage Design	Keyboarding skills	9-12
ACCOUNTING AND FINANCE				
.5	4102	Accounting I	None	10-12
.5	4132	Personal Financial Management	None	10-12
.5	4136	Money, Banking & Investing	None	10-12
MARKETING AND BUSINESS				
.5	4108	Entrepreneurship	None	10-12
.5	4119	Marketing I	None This course may also be taken through VANTAGE #V104	10-12
.5	4128	Introduction to Business	None	9-12
.5	4150	Sports & Entertainment Marketing & Management	None	10-12
.5 .5	IB900 IB902	IB Business Management SL, S1 IB Business Management SL, S2	None This course may also be taken through VANTAGE #V100 and #V102	11-12
VANTAGE BUSINESS AND MARKETING COURSES				
2.0	V100	**Business Analytics:** Earning credit for AP Statistics (math credit) and IB Business Management SL/HL (elective credit)	Interest in business and/or statistics Application process	11-12
3.0	V102	**Business in a Global Economy:** Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL/HL (business elective credit)	Interest in global business; Application process	11-12
2.0	V104	**Design + Marketing:** Earning credits in Graphic and Product Design I and II (art elective) and Marketing I and II (business elective credit)	Interest in design and marketing Application process	11-12

Business

WEBPAGE DESIGN

Course #4146

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Keyboarding skills

Course Description:

Webpage design is one of the fastest growing fields in business. A course in web design will provide a thorough grounding in this fast-evolving field. Through case studies and hands-on exercises, students develop superior communication and design skills for the web, learning critical issues in the structure and design of a web environment. This course will focus on:

- Basic concepts of webpage design
- Macromedia Dreamweaver

The advanced course will include Dreamweaver, Flash, and Fireworks and Freehand.

Instructional Methods and Assessments:

Classroom lectures to introduce the material will be followed by substantial hands-on practice using the computer lab. Assessments include daily work, tests, participation and group projects.

Recommended Background for Success:

Basic grammar and keyboarding proficiency.

ACCOUNTING I

Course #4102

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

Accounting is the language of business, and many post-secondary institutions require this knowledge prior to attendance into business degree programs. This course will prepare students 1) who need a foundation for studying business and accounting at the post-secondary level; 2) who desire careers in related business fields for which some accounting knowledge and application is needed; or 3) who desire vocational preparation for accounting career. Accounting will teach students how to apply accounting theory to typical business transactions.

Instructional Methods/Assessments:

Classroom instruction to introduce concepts. Significant use of hands-on learning in the computer labs and individual projects. Assessments include daily work, continuing projects, tests and participation.

Recommended Background for Success:

Students should have basic math and problem solving skills.

PERSONAL FINANCIAL MANAGEMENT

Course #4132

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

Students will learn financial decision-making skills to avoid the major pitfalls they face in deciding what to do with their money. In this course, students will learn the basic principles of: a) developing a personal financial plan and budget; b) banks and their services; c) income taxes; d) getting and using credit; e) buying an automobile; f) buying or renting housing; g) insurance; and h) investment strategies—including retirement planning.

Instructional Methods/Assessments:

This course will use lectures, group projects, individual textbook assignments and several hands-on exercises. Students will have the opportunity to participate in the Stock Market Game. Assessments include daily work, tests, projects and participation.

Recommended Background for Success:

Students must be motivated readers and must be willing to participate in group learning activities. Basic computer skills are recommended.

MONEY, BANKING AND INVESTING

Course #4136

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

Save money? Plan for retirement? Learn about investing? But I'm only in high school! Experts agree – the time to start improving your financial and economic literacy is now while you are in high school! This course focuses on students' role as consumers and the business of everyday living. The course includes an introduction to economics, an examination of practical economics (saving and investing, purchasing, credit, and consumerism), and microeconomics (markets, prices, business competition, and American business in action). Money, banking, and the Federal Reserve System will also be examined. This course includes the opportunity for students to participate in an investment simulation (Stock Market Game). This course will also introduce students to a personal finance software package.

Instructional Methods/Assessments:

Instructional methods include classroom instruction to introduce concepts, hands-on learning to include the use of technology, and individual projects. Assessments include quizzes and tests, projects, participation, and daily work to include in-class assignments and homework assignments.

Recommended Background for Success:

Students must be motivated readers and must be willing to participate in group learning activities. Basic computer skills are recommended.

ENTREPRENEURSHIP

Course #4108

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

Entrepreneurship provides students an opportunity to develop knowledge for starting, operating and succeeding in small business. They will investigate the entire process from its first step on opening day and finally to the day they are ready to sell. By learning to make decisions that will help them achieve success in the business they design, students will learn the concepts of opportunity scanning and opportunity recognition. Developing a business plan is a primary focus and will allow student ideas, skills and creativity to come to life. Entrepreneurs from the community will speak to the class and a field trip will be planned to enhance student understanding of entrepreneurship.

Instructional Methods/Assessments:

Instructional methods include lectures, guest speakers, case study analysis and research. Significant use of hands-on learning in the computer labs. Assessments include daily work, tests, group work and the business plan.

Recommended Background for Success:

Students should have basic grammar and math skills, the ability to complete projects in a timely manner and technology experience.

MARKETING I

Course #4119

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

Marketing is one of the most important functions in today's American and international companies. It is the creation and maintenance of satisfying exchange relationships. This course will provide students with an opportunity to learn techniques and concepts used in contemporary marketing. These concepts include: personal selling, purchasing, product and service planning, distribution, promotions, market research, pricing, risk management, finance and customer service. Professional sales and marketing skills give engineers, doctors, lawyers, and of course, business professionals a dynamic advantage in today's competitive marketplace. Over the course of the semester, students will develop an advertising campaign for a current product or

company. This course is directly correlated with DECA activities at the high school.

Instructional Methods/Assessments:
Instructional methods include lectures, guest speakers, case study analysis, research and collaborative learning. Significant use of hands-on learning in the computer labs. Assessments include daily work, tests, group work and developing a marketing plan.

Recommended Background for Success:
Students should have basic grammar and math skills, the ability to complete projects in a timely manner and technology experience.

INTRODUCTION TO BUSINESS

Course #4128
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This is a pre-college business class designed to acquaint students with the major activities of business including insurance, credit, banking, saving, investing, entrepreneurship, economics, marketing and management. Career opportunities will be explored to assist students in choosing college business courses.

Instructional Methods/Assessments:
Instructional methods include lectures, guest speakers, research. Assessments include daily work, tests, business plan, group projects, and participation.

Recommended Background for Success:
Students should have basic grammar proficiency and basic math skills.

SPORTS & ENTERTAINMENT MARKETING & MANAGEMENT

Course #4150
Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
The sports and entertainment industry is one of the most exciting and fastest growing industries in the U.S. career opportunities range from event promoters and sports agents to marketing representatives and general managers. Students will learn about this industry. This course provides a unique experience by providing students an opportunity to examine many valuable resources available within the Twin Cities metropolitan area. Among other things, students will invent and market their own sport, plan their favorite musical group's concert tour across the U.S., and create a plan for a new sports franchise. Public policy issues will also be studied (ex. Title IX, financing of stadiums and theaters). Students will have the opportunity to explore their own interests.

Instructional Methods/Assessments:
Classroom instruction to introduce concepts. There will be significant use of hands-on learning. Individual and group projects will be used in this course. Speakers from various organizations will be invited to present to the class. Assessments include daily work, projects, tests, and participation.

Recommended Background for Success:
Students should have basic grammar and math skills, the ability to complete projects in a timely manner, and keyboarding proficiency.

IB BUSINESS MANAGEMENT SL

Course #IB900, S1
Course #IB902, S2
This course may also be taken as part of VANTAGE #V100 and #V102
Grade(s) offered: 11-12
Credits: 1 (one-year course)
.5 (per semester)
Prerequisites: None

Course Description:
Business and Management is designed to give students an understanding of business principles, practices, and skills. Emphasis is also placed on understanding technical innovation and day-to-day business functions of operations management, marketing, human resource management and finance. A fundamental feature of this program is the concept of synergy. In its technical sense, an organization should seek an over-all return greater than the sum of its parts. Applied to the Business and Management program, it necessitates a style of teaching and learning based on integrating and linking the various modules to give students a holistic overview by the end of this course. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

VANTAGE: BUSINESS ANALYTICS

Course #V100
Grade(s) offered: 11-12
Credits: 2.0
Earning credit for AP Statistics (math credit) and IB Business Management SL/HL (business elective credit)
Prerequisites: Interest in business and/or statistics; application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 116

VANTAGE: BUSINESS IN A GLOBAL ECONOMY

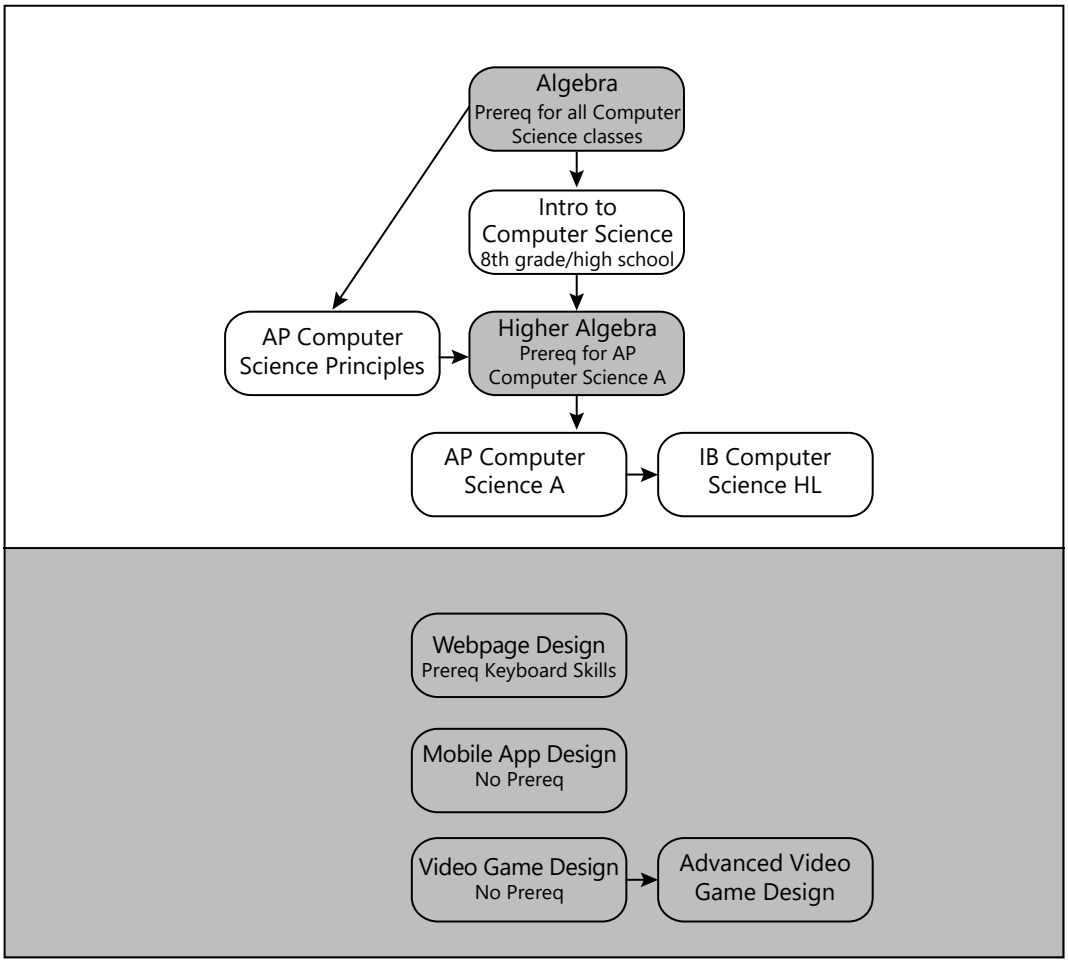
Course #V102
Grade(s) offered: 11-12
Credits: 3.0
Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL/HL (elective credit)
Prerequisites: Interest in global business application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 117

VANTAGE: DESIGN + MARKETING

Course #V104
Grade(s) offered: 11-12
Credits: 2.0
Earning credits in Graphic and Product Design I and II (art elective) and Marketing I and II (business elective credit)
Prerequisites: Interest in design and marketing. Application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 117

Computer Science

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
COMPUTER SCIENCE				
.5	2920 T960S	Introduction to Computer Science Introduction to Computer Science, summer only, Tonka Online	Grade of C or better in Algebra	9-12
.5 .5 .5 .5	AP416 AP418 T966* T967*	AP Computer Science Principles, S1 AP Computer Science Principles, S2 AP Computer Science Principles, part 1, Tonka Online Select Term: T966S / T966F / T966W AP Computer Science Principles part 2, Tonka Online Select Term: T967S / T967F / T967W	Grade of C or better in Algebra; Introduction to Computer Science is recommended but not required	9-12
.5 .5	AP412 AP414	AP Computer Science A, S1 AP Computer Science A, S2	Grade of C or better in Higher Algebra, Higher Algebra Honors, or Instructor's permission	9-12
.5 .5	IB620 IB622	IB Computer Science HL, S1 IB Computer Science HL, S2	AP Computer Science A	11-12
.5	4146	Webpage Design	Keyboarding skills	9-12
.5	4658	Video Game Design	None	9-12
.5	4659	Advanced Video Game Design	Video Game Design	10-12
.5	4660	Mobile App Design	None	9-12



Computer Science

INTRODUCTION TO COMPUTER SCIENCE

Course #2920
Course #T960S, summer only, Tonka Online
Grades Offered: 9-12
Credits: .5 (semester course)
Prerequisites: C or better in Algebra

Course Description:
Students work in teams to create simple apps for mobile devices using MIT App Inventor®. Students explore the impact of computing in society and the application of computing across career paths and build skills and awareness in digital citizenship and cybersecurity. Students model, simulate, and analyze data about themselves and their interests. They also transfer the understanding of programming gained in App Inventor to learn introductory elements of text-based programming in Python® to create strategy games.

Instructional Methods/Assessments:
Essential Questions:

- How has computing affected the world we live in? Why is it advantageous to break a problem down into smaller pieces and build a solution incrementally? How do computers represent the data in words, numbers, pictures, and sound?
- How complex is a piece of software organized? How do teams plan and create complex solutions to a problem?
- How do I safely use the Internet? How do people collaborate to create software applications?
- How do apps share data across devices through the Internet to let users to interact? What data are you contributing via our interactions on the Web and through apps, and to whom are you contributing the data? What new phenomena are being created when many users are contributing data set?
- How are algorithms used to solve common problems?

Recommended Background for Success:

- This class will be a review and extension of the computer programming units completed in STEM and Tech Ed classes.
- Students should have a strong interest in Computer Programming and app development.
- This class will serve as a great foundation for students who are interested in pursuing Computer Science classes at the High School Level such as Mobile App Design, AP Computer Science Principles, or AP Computer Science A.

AP COMPUTER SCIENCE PRINCIPLES

Course #AP416, S1
Course #AP418, S2
Course #T966*, part 1, Tonka Online
Course #T967*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
Grades Offered: 9-12
Credits: .5 (per semester)
Prerequisites: C or better in Algebra; Introduction to Computer Science is recommended but not required

Course Description:
CS Principles is designed to be a full-year, rigorous, but entry-level course for high school students. The Internet and Innovation provide a narrative arc for the course, a thread connecting all of the units. The course starts with learning about what is involved in sending a single bit of information from one place to another, and ends with students developing small applications of their own design that live on the web. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further.

Instructional Methods/Assessments:
The AP Assessment consists of a multiple choice exam and two "through-course" assessments called the AP Performance Tasks (PTs). There are several lessons in the curriculum that outline projects that are very similar to the AP PTs. We call them Practice PTs. Each unit contains at least one Practice PT and some have two.

Recommended Background for Success:
This course can be an entry-level course; however, it is recommended that students take Intro to Computer Science prior to AP Computer Science Principles. The Intro to CS course can be taken at either the middle school level (8th grade) or the high school level. The course requires a significant amount of expository writing (as well as writing computer code, of course). For students wishing to complete the requirements of the AP Exam and Performance Tasks, we recommend they be in 10th grade or above.

The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

AP COMPUTER SCIENCE A

Course #AP412, S1
Course #AP414, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: C or better in Higher Algebra, Higher Algebra Honors, or Instructor's permission

Course Description:
AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using the Java programming language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many introductory courses at colleges and universities.

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, small-group and individual activities, and computer lab investigations. Assessments include tests, quizzes, homework, and projects.

Recommended Background for Success:
No programming experience is required. Students should have acquired a strong foundation of mathematical reasoning skills prior to attempting this course.

IB COMPUTER SCIENCE HL

Course #IB620, S1
Course #IB622, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: AP Computer Science A

Course Description:
IB Computer Science HL expands upon topics learned in AP Computer Science A, and includes program implementation and analysis (testing and debugging), data structures (arrays, stacks, queues, linked lists, binary trees), object-oriented programming (with Java), and algorithms (searching, sorting, recursion). Additionally, this course covers system fundamentals (components, human-computer interaction), computer organization (computer architecture, memory, operating systems, logic gates), networks (data transmission, wireless networking), resource management, and control. Throughout the course, the ethical and social implications of computing will be addressed.

Computer Science

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, small-group and individual activities, and computer lab investigations. Assessments include tests, quizzes, homework, and projects.

Recommended Background for Success:
Students should have acquired a strong foundation of mathematical reasoning skills prior to attempting this course. The content in AP Computer Science A is essential to this course, and students must either have successfully completed AP Computer Science A or be concurrently enrolled in AP Computer Science A.

WEBPAGE DESIGN

Course #4146
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Keyboarding skills

Course Description:
Webpage design is one of the fastest growing fields in business. A course in web design will provide a thorough grounding in this fast-evolving field. Through case studies and hands-on exercises, students develop superior communication and design skills for the web, learning critical issues in the structure and design of a web environment. This course will focus on:

- Basic concepts of webpage design
- Macromedia Dreamweaver

The advanced course will include Dreamweaver, Flash, and Fireworks and Freehand.

Instructional Methods and Assessments:
Classroom lectures to introduce the material will be followed by substantial hands-on practice using the computer lab. Assessments include daily work, tests, participation and group projects.

Recommended Background for Success:
Basic grammar and keyboarding proficiency.

VIDEO GAME DESIGN

Course #4658
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
In this project-based course, students will develop working computer games using Game Maker. Students are introduced to the fundamental principles of game design and development using an object oriented language. The content includes practical experiences in conceptualization, storyboarding, development methodologies, color theory, the use of math and physics in video games, audio/sound effects design, graphic design and animation, and implementation. Students will also research careers in the gaming industry.

Instructional Methods/Assessments:
Instructional methods include entry-level use of Game Maker software, to design, develop, and edit class video games. The class will also include classroom assignments, quizzes, tests and projects related to the video game industry.

Recommended Background for Success:
Students should be interested in video game design and have basic computer, math and problem-solving skills.

ADVANCED VIDEO GAME DESIGN

Course #4659
Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Video Game Design

Course Description:
The GAME: IT Advanced course is an introduction to C#programming and game development with XNA game studio. The first half of the course involves learning core C#programming skills by programming within console applications. Console applications are an easy and excellent way to learn C#and become familiar with Visual C#Express features and tools. In the second half of the course, the student eases into XNA game development by starting with a simple bouncing ball project. The core XNA game development concepts are learned and applied through experimenting with a few different physics concepts. The final part of the course is the RPG game project. This is the heart of the course and all the information and skills that have been learned up to this point prepare the student for the complexity of the RPG game code.

Instructional Methods/Assessments:
Instructional methods include entry-level use of Game Maker software, to design, develop, and edit class video games. The class will also include classroom assignments, quizzes, tests and projects related to the video game industry.

Recommend Background for Success:
Students should be interested in video game design and have basic computer, math and problem-solving skills.

MOBILE APP DESIGN

Course #4660
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Mobile App Design is an introductory mobile application design & programming course using Java and Eclipse for Android devices. The course starts by taking students through the history of mobile applications. Then we move on to learning about the current industry standards, languages and platforms used in mobile apps development with a special focus on career opportunities within the industry and the entrepreneurial potential that exists. The "meat" of the course is spent learning some basic Java programming and then on to working with Eclipse in order to start developing real working apps. Those lessons and skills are then applied toward programming for Android devices. By the end of the course students are able to successfully download real working mobile applications for Android devices.

Instructional Methods/Assessments:
Instructional methods include entry-level use of Game Maker software, to design, develop, and edit class video games. The class will also include classroom assignments, quizzes, tests and projects related to the video game industry.

Recommend Background for Success:
Students should be interested in mobile/application design and have basic computer, math and problem-solving skills.

English

Four English credits are required for graduation. All course numbers represent a semester, earning .5 credit (except VANTAGE courses). One English credit is required each year. Electives do not fulfill this requirement but may be taken in addition to required English options. No course may be repeated unless a student has failed that particular course and wishes to repeat it for credit.

Senior Year

For 12th grade, students must choose either one year-long course (listed below) or two semester-long courses to satisfy their one-credit English requirement.

Year-long courses

Any of these courses will satisfy the 1.0 English credit requirement:

- IB Language and Literature SL
- IB Literature and Performance SL
- IB Literature HL, Year 2
- VANTAGE #V102 Business in a Global Economy*
- VANTAGE #V600 Digital Journalism*

***Note: VANTAGE courses may only earn English credit once, either junior or senior year.**

OR

Semester-long courses

To receive a 1.0 English credit, seniors may take a combination of two semester-long courses (.5 credits each) from the table below. They must select one course from column A and one course from column B.

Column A	Column B
English 12 Tonka Online English 12	AP Language and Composition 12 Tonka Online AP Language and Composition 12
English 12H	Bible as Literature and Philosophy Honors
	Composition for College Hybrid
	Fiction and Poetry Workshop
	Journalism 12
	Speech Hybrid

The Writing Center

Endowed by the Minnetonka Public Schools Foundation

The Writing Center is a valuable resource at MHS and works with students on any writing assignment for any class, as well as college essays and scholarship applications. It is staffed by trained adult and student volunteers. Writing Center coaches can assist at any stage in the writing process. If you're trying to clarify a thesis, integrate or analyze quotations, make inferences, organize or revise, we're here for you. Just stop in to schedule a conference or walk in during zero hour, after school, or over your lunch break.

English

CREDIT	COURSE	REQUIRED OR ELECTIVE OPTION	COURSE TITLE	PREREQUISITE	GRADE(S) OFFERED
.5 .5	0900 0902	Required Option	English 9, S1 English 9, S2	None	9
.5 .5	0906 0908	Required Option	English 9 Honors, S1 English 9 Honors, S2	None	9
.5 .5	0910 0912	Required Option	English 9 Honors Communications, S1 English 9 Honors Communications, S2	Concurrent enrollment in AP Physics I, courses AP300 and AP302	9
.5 .5	1000 1002	Required Option	English 10, S1 English 10, S2	Any English 9 Course	10
.5 .5	1006 1008	Required Option	English 10 Honors, S1 English 10 Honors, S2	Any English 9 Course	10
.5 .5	1009 1010	Required Option	American Studies 10 Honors, S1 American Studies 10 Honors, S2	Any English 9 Course and concurrent enrollment in Social Studies 2012 & 2013	10
.5 .5	1102 1104 T702* T703*	Required Option	English 11, S1 English 11, S2 English 11, part 1, Tonka Online Select Term: NA/T702F/T702W English 11, part 2, Tonka Online Select Term: NA/T703F/T703W	Any English 10 Course	11
.5 .5	AP100 AP102	Required Option	AP English 11 Literature & Composition, S1 AP English 11 Literature & Composition, S2	Any English 10 Course	11 11
.5 .5	IB108 IB110	Required or Elective Year-long Option	IB Language and Literature SL, S1 IB Language and Literature SL, S2	Any English 10 Course	11-12
.5 .5	IB112 IB114	Required or Elective Year-long Option	IB Literature and Performance SL, S1 IB Literature and Performance SL, S2	Any English 10 Course	11-12
.5 .5	IB116 IB118	Required or Elective Two-Year Course	IB Literature HL Year 1, S1 IB Literature HL Year 1, S2	Any English 10 Course	11
1.0	V102	Required or Elective Year-long Option	VANTAGE: Business in a Global Economy (with English and Advanced Research)	Any English 10 Course Apply online at www.TonkaVANTAGE.com	11-12
1.0	V600	Required or Elective Year-long Option	VANTAGE: Digital Journalism (with Communication Theory and Practice)	Any English 10 Course Apply online at www.TonkaVANTAGE.com	11-12
Grade 12: Choose one Year-long course or IB Lit HL - OR - choose two semester courses, one required option A and one B.					
.5 .5	1200 T700*	Required Option (A)	English 12, S1 or S2 English 12, Tonka Online Select Term: T700S/T700F/T700W	Any English 11 Course	12
.5	1206	Required Option (A)	English 12 Honors	Any English 11 Course	12
.5	1212	Required Option (B)	Bible as Literature and Philosophy Honors	Any English 11 Course	12
.5	1220	Required Option (B)	Fiction and Poetry Workshop 12	Any English 11 Course	12
.5	1226	Required Option (B)	English 12 Speech Hybrid	Any English 11 Course	12
.5	1240	Required Option (B)	Composition for College Hybrid	Any English 11 Course	12
.5	1244	Required Option (B)	Journalism 12	Any English 11 Course	12
.5 .5	AP104 T704*	Required Option (B) Required Option (B)	AP Language and Comp 12 AP Language and Comp 12, Tonka Online Select Term: T704S/T704F/T704W	Any English 11 Course	12
.5 .5	IB108 IB110	Required or Elective Year-long Option	IB Language and Literature SL, S1 IB Language and Literature SL, S2	Any English 11 Course	11-12
.5 .5	IB112 IB114	Required or Elective Year-long Option	IB Literature and Performance SL, S1 IB Literature and Performance SL, S2	Any English 11 Course	11-12
.5 .5	IB120 IB122	Required or Elective Two-Year Course	IB Literature HL Year 2, S1 IB Literature HL Year 2, S2	IB Literature HL Year 1	12

1.0	V102	Required or Elective Year-long Option	VANTAGE: Business in a Global Economy (with English and Advanced Research)	Any English 11 Course Apply online at www.TonkaVANTAGE.com	11-12
1.0	V600	Required or Elective Year-long Option	VANTAGE: Digital Journalism (with Communication Theory and Practice)	Any English 11 Course Apply online at www.TonkaVANTAGE.com	11-12
The courses below may be taken as electives, but do not fulfill state content standards for required English credit					
.5	1314	Elective	Theater I	None	9-12
.5	1315	Elective	Theater II	Theater I; Instructor approval	9-12
.5	1322	Elective	Debate	None	9-12
.5	1324	Elective	Writing Center Seminar for Writing Coaches	Application process	10-12
.5	4038	Elective	Yearbook I	Application, interview and teacher rec	9-12
.5	4039	Elective	Yearbook II	Yearbook I	9-12

ENGLISH 9

Course #0900, S1
Course #0902, S2
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This is primarily a genre-study course. Students will read short stories, novels, plays, nonfiction, and poetry to study various elements of literature. Students will improve their writing skills, focusing on well-developed paragraphs and three-part essays. Students will study vocabulary and grammar, including parts of speech, parts of sentences, mechanics and usage. Students will focus on critical reading, public speaking, and writing, and as an ongoing project, .students will begin an academic and personal portfolio.

Instructional Methods/Assessments:
Discussion, lecture, and various fiction and nonfiction texts are the primary methods for presenting course material. Students will work both independently and collaboratively to deepen their understanding of course materials. Assessments include essays, discussions, oral presentations, objective tests, and projects.

Recommended Background for Success:
Students should be prepared to develop and improve their reading, critical thinking, discussion, and writing skills. They should expect to participate in class and work both collaboratively and independently. Individual responsibility and resiliency are other important factors of success.

ENGLISH 9 HONORS

Course #0906, S1
Course #0908, S2
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students will read short stories, novels, plays, nonfiction, and poetry to study various elements of literature. Students will improve their writing skills, focusing on expository essays. Students will also study vocabulary and grammar. Students will focus on critical reading, writing, and speaking. **Note**: Prior to beginning the course, students are expected to complete a summer reading assignment.

Instructional Methods/Assessments:
Discussion, lecture, and various fiction and nonfiction texts are the primary methods for presenting course material. Students will work both independently and collaboratively to deepen their understanding of course materials. Assessments include essays, discussions, oral presentations, objective tests, and projects.

Recommended Background for Success:
Students must have the ability and motivation to read carefully, interpret insightfully and write concisely. They are expected to participate in class and work both collaboratively and independently. Students should be prepared to read assignments of 20-25 pages per night, complete assignments on time, and take notes. Independence, risk-taking, and resiliency are other important factors of success.

ENGLISH 9 HONORS COMMUNICATIONS

Course #0910, S1
Course #0912, S2
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: Concurrent enrollment in AP Physics 1 (grade 9), Courses AP300 and AP302

Course Description:
Like the traditional English 9 Honors course, students will study short stories, novels, plays and nonfiction books through a literary lens. The language arts writing focus on expository essays and detailed passage analysis. In addition, there will be a technical communications emphasis that will be tailored to aid students who are taking AP Physics I. This component will be through the scientific lens: scientific research, research writing, and presentation skills will be the focus. Students will also study vocabulary and grammar. Prior to beginning the course, students will receive summer reading selections and assignments.

Instructional Methods/Assessments:
Discussion, lecture, and individual as well as collaborative work are the primary methods of learning. Students will be tested on comprehension and interpretation through a variety of testing methods. Vocabulary tests, oral presentations and written compositions are also means used to determine growth.

Recommended Background for Success:
Students must have the ability and desire to read carefully, interpret insightfully, and write concisely. Students are expected to complete work on time, to take notes, and to prepare for exams. Students should be prepared to read assignments of approximately 20-25 pages per night. Student should have an advanced background in science and are required to sign up for the AP Physics I course alongside this course choice.

ENGLISH 10

Course #1000, S1
Course #1002, S2
Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Any English 9 Course

Course Description:
Students read a survey of American literature from the Colonial period to the present. The study of novels, nonfiction, plays, poetry and short stories will illustrate trends in American cultural development and will build skills of literary analysis. Students will expand their writing skills, continuing their work with expository writing, and also write for a variety of purposes and audiences. Students will concentrate on continuity and coherence in their written expression. Students will focus on critical reading, writing, and speaking; they will also study vocabulary and grammar.

English

Instructional Methods/Assessments:
Teachers use a combination of lectures, large and small group discussions, and individual assignments to present the material. Students will be assessed by means of quizzes, unit objective tests, a variety of written tasks, and presentations.

Recommended Background for Success:
Students should be prepared to develop and improve their reading, critical thinking, discussion, and writing skills. They should expect to participate in class and work both collaboratively and independently. Students will need to manage time, complete daily reading assignments, and hand in assignments on time. Individual responsibility and resiliency are other important factors of success.

ENGLISH 10 HONORS

Course #1006, S1
Course #1008, S2
Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Any English 9 Course

Course Description:
Students will explore the evolution of American literature by reading and discussing a variety of text types, including novels, poems, plays, and nonfiction texts. Through the creation of diverse writing assessments, students will continue to expand their critical thinking skills and learn how to evaluate and revise their writing. Vocabulary study will include words from literature as well as high-frequency words from standardized tests. Prior to beginning the course, students will complete summer reading selections and assignments.

Instructional Methods/Assessments:
Teachers use a combination of lectures, large and small group discussions, and individual assignments to present the material. Students will be assessed by means of quizzes, discussions, a variety of written tasks, and presentations.

Recommended Background for Success:
Students should have a desire to learn college-level skills in reading, writing, and discussion. Success in the 9th grade Honors course is recommended but not required. Students are expected to participate regularly in class and work both collaboratively and independently. Students should be prepared to read challenging texts, think creatively, and manage their time effectively.

AMERICAN STUDIES 10 HONORS

Students must register for all four courses.
Course #1009 - English, S1
Course #1010 - English, S2
Course #2012 - Social Studies, S1
Course #2013 - Social Studies, S2
Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Any English 9 Course
Concurrent enrollment in Social Studies 2012 & 2013

Course Description:
This honors-level interdisciplinary course, which meets across two class periods, fulfills the requirements for both 10th grade social studies and English. The course will focus on the skills and patterns of mind necessary for success in future IB and AP courses; this particular course will allow for flexible grouping, skills-based learning, team-teaching and cross-disciplinary study. The course will examine five major time periods/themes in American history and American literature. Students will read, examine, analyze and synthesize non-fiction, fiction and poetry as they begin to establish clear links between literary accounts and specific historical events. Students will evaluate the way different writers and historical figures attempt to reflect on, critique, or engender change in American society. Prior to beginning the course, students will complete summer reading selections and assignments.

Instructional Methods/Assessments:
Instructional methods include interactive discussions on readings, lecture, analysis of literature and primary source material, instruction of writing skills, essay exams and formal papers.

Recommended Background for Success:
Students should show strong reading skills and a desire to learn college-level skills. Success in the 9th grade Honors course is recommended but not necessary. Students are expected to participate regularly in class and work both collaboratively and independently. Students should be prepared to read quickly, think creatively, and manage their time effectively.

ENGLISH 11

Course #1102, S1
Course #1104, S2
Course #T702*, part 1, Tonka Online
Course #T703*, part 2, Tonka Online
***Select term F=fall, W=winter**
Online: Complete part 1 before part 2
Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Any English 10 Course

Course Description:
English 11 focuses on diverse voices and cultures through a variety of text types. From graphic novels to film to classic literature, students will focus on the individual's place in society. Student writing will include traditional essays, as well as more creative and exploratory pieces. Students will also practice and refine research skills, with an emphasis on persuasion and synthesis. In addition, students will work on vocabulary development and review grammar and usage to help prepare for the SAT and ACT. The culminating experience for students in English 11 is personal narrative writing that can segue into the college essay.

Instructional Methods/Assessments:
Lectures and discussion based on assigned readings are the primary instructional methods. Students will be assessed by means of homework, quizzes, unit tests, essays, oral presentations, and written projects.

Recommended Background for Success:
Students should be prepared to develop and improve their reading, critical thinking, discussion, and writing skills. They should expect to participate in class and work both collaboratively and independently. Students should be prepared to hear multiple perspectives and to respectfully react and respond to these voices. Resiliency and individual responsibility are other important factors of success.

"Reading is the sole means by which we slip, involuntarily, often helplessly, into another's skin, another's voice, another's soul."

— Joyce Carol Oates

English

AP ENGLISH 11 LITERATURE & COMPOSITION

Course #AP100, S1
Course #AP102, S2
Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Any English 10 Course

Course Description:
AP Literature and Composition prepares students to take the AP Literature and Composition exam and to succeed in college English courses. This course emphasizes accurate, perceptive reading of major British and American Literature representing all literary genres—poetry, drama, novel, short story—covering the 17th to the 20th century. Students write analytical and interpretive essays about the texts; they examine the techniques writers use to create particular effects and enhance meaning; and they generate independent, thoughtful and analytical discourse in writing and class discussion. Vocabulary study will include both words from literature and a vocabulary series. Prior to beginning the course, students will receive summer reading selections and assignments. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Lecture and large and small group discussion are the primary instruction methods. Students will be assessed by means of quizzes, tests, essays and oral presentations.

Recommended Background for Success:
Students should be eager to read and discuss challenging coursework. They should be skillful readers and insightful discussants who are interested in analyzing and interpreting literature.

IB LANGUAGE & LITERATURE SL

Course #IB108, S1
Course #IB110, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Any English 10 or English 11 course

Course Description:
IB Language and Literature SL is a year-long course offered to all juniors and seniors, including IB diploma candidates, who would take this class as an extra subject for their program. This course represents a new way of looking at language in action: key aims of the course are to encourage students to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. The textual focus of the course is evenly split between fiction and non-fiction, written and visual texts. A wider aim of the course is the development of an understanding of "critical literacy" in students of the course. Students examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. Students consider the way language is used in the media, including newspapers, magazines, the Internet, social networking, mobile telephony, radio, and film. Through the close reading of literary texts, students are able to consider the relationship between literature and issues at large, such as power and identity. By looking closely at the detail of literary texts, students develop an awareness of their rich complexities and the intricacies of their construction. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments
Students participate in a wide variety of classroom activities including large and small group work, classroom discussion, formal analytical writings, research writing, presentations, and projects. Students will be assessed by classroom and individual formal presentations, imaginative writing activities, close reading activities, and analytical responses to both traditional literary texts and non-literary texts (advertisements, visual arts, Web pages, and other digital and print media).

Recommended Background for Success:
Students must be curious and motivated readers, writers and thinkers. They must be interested in looking closely at language in traditional and nontraditional forms. Students must be willing to work hard and participate fully in discussions.

IB LITERATURE & PERFORMANCE SL

Course #IB112, S1
Course #IB114, S2
This course fulfills the Arts credit requirement.
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Any English 10 or English 11

Course Description:
Literature and Performance SL is a year-long course offered to all juniors or seniors who would take this as an 11th or 12th grade English credit. Students will experience a unique synthesis of language and theater study in this class. The coursework blends essential elements of literature as well as performance and aims to explore the dynamic relationship between the two. At the heart of the course is this interaction between close readings of literature, critical writing, and practical, aesthetic and symbolic elements of performance. This course seeks to develop intellect, imagination and creativity. It encourages intercultural awareness through a study of texts (poetry, prose and drama) from cultures around the world. When students complete this course, they will also have fulfilled the art credit for graduation from MHS. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments:
Over the course of the year, students will engage in dramatic exercises and performances, will write critical analyses, reflections and literary response, and will deliver an oral presentation.

Recommended Background for Success:
Students should be curious, motivated readers and writers. They should be interested in looking closely at language and devising original dramatic ideas from a variety of texts. Finally, students should be interested in performing in front of an audience of their peers.

IB LITERATURE HL

Course #IB116 Year 1, S1
Course #IB118 Year 1, S2
Course #IB120 Year 2, S1
Course #IB122 Year 2, S2
Grade(s) offered: 11-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisites: Year 1: Any English 10 Course; Year 2: IB Lit HL Year 1

Course Description:
IB Literature HL is a two-year course that is required for students seeking the IB Diploma, but is also available to all students who wish to further their critical reading and writing skills. It serves as a student's English credit for both 11th and 12th grade. This course encourages students to read literature in a deep, focused, interpretive manner, while also fostering confidence in individual insights and thoughtful reflection. While the primary focus is fiction representing diverse voices and places, students will also engage in close study of memoir, poetry, and drama. It is expected that students electing this course will take the IB exam, for which there is a fee.

Instructional Methods/Assessments:
Students will write several short, analytical and original responses that are often then shaped into longer, critical papers. In addition to writing, students will spend significant time developing oral analytical skills. Much class time is devoted to literary discussion of the texts studied, and several informal and formal assessments are spoken tasks. Over the course of the two years, students will participate in a wide variety of activities and assessments that require both individual and collaborative work.

Recommended Background for Success:
Students must be curious, motivated readers, thinkers and writers. They must be interested in looking closely at language and devising original ideas for their written and spoken responses from a variety of texts. Students should be willing to engage in frequent class discussions about the readings and to approach writing and speaking in an exploratory, intentional manner. Resiliency, risk-taking and a solid work ethic are vital to success in this course.

English

VANTAGE: BUSINESS IN A GLOBAL ECONOMY

Course #V102

Grade(s) offered: 11-12
Credits: 3.0
Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL (business elective credit)
Prerequisites: Interest in global business; application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 117

VANTAGE: DIGITAL JOURNALISM

Course #V600

Grade(s) offered: 11-12
Credits: 2.0
Earning credits in Video Production (arts elective) and Communication Theory and Practice (required English credit)
Prerequisites: Interest in digital journalism. Application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 119

ENGLISH 12 (REQUIRED OPTION A)

Elective or Required Option

Course #1200, S1 or S2

Course #T700*, Tonka Online
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 12
Credits: .5 (one semester)
Prerequisites: Any English 11 Course

Course Description:
This course provides students with the opportunity to reflect on themselves—who they are, where they are, and where they are going—as they prepare to transition into the next phase of their lives. While this is an English course that does focus on developing skills in reading, writing, speaking, and viewing, it also encourages students to consider how key themes in both classic and contemporary literature connects to their own journeys. Course assessments ask students not only to demonstrate their understanding of the texts, but also to make personal connections in their writing and speaking. Materials will include classic and contemporary texts, and non-traditional text-types. The culminating project will be an analysis and review of film.

Instructional Methods/Assessments:
Discussion, lecture, and various fiction and nonfiction texts are the primary methods for presenting course material. There is occasional small group and partner work as some assessments require collaboration. Students' assessments include a variety of written tasks. This is a literature-focused course, but there are significant aspects of writing and reading/research work.

Recommended Background for Success:
Students who are curious about and willing to engage with the people and world around them will be good candidates for this course. Students must be motivated to expand their perspective and to develop and improve their reading, critical thinking, and writing skills. They must be willing to write and work both collaboratively and independently and respectfully react and respond to the texts. Independence, risk-taking and resiliency are other important factors of success.

ENGLISH 12 HONORS (REQUIRED OPTION A)

Elective or Required Option

Course #1206

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
In English 12H students will read and discuss interesting, challenging texts from a range of literary genres: novellas/novels, nonfiction and drama, and respond to these texts through various types of writing. The majority of the material studied is contemporary, and from different countries and cultures. Students will primarily study texts as literary expressions, paying close attention to the language and techniques writers use and exploring how they affect a story's meaning. Students will practice and develop personal responses to literature. As a culminating experience, students will also conduct independent research for a project that requires inquiry into the flexible and evolving nature of language.

Methods of Instruction/Assessments:
The heart of this course is a close study of literature. The majority of time is spent in large and small group discussions based on careful reading and reflection of the selections for the day. Student participation in these discussions is key, as the instructor serves as facilitator, not lecturer. There will be written pieces of various types and lengths, both in and out of class, as well as opportunities for spoken work and dramatic/artistic interpretations.

Recommended Background for Success:
Any student willing to read a variety of texts and engage in conversations about ideas will find success in this course. It is designed for people who truly enjoy reading and writing—who find thoughtful discussion intriguing, even fun. Students ready for a course that is really a collaboration between the instructor and the students, a seminar setting, will find their place in this class.

BIBLE AS LITERATURE AND PHILOSOPHY HONORS (REQUIRED OPTION B)

Elective or Required Option

Course #1212

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
The Bible—both Hebrew and New Testament—is a complex and fascinating text, written by many people, in different languages, over a vast period of time, yet it nonetheless displays an overarching—or underlying—unity. The purpose in this course is to consider the Bible as both a collection of disparate books and as a unified whole. Students will explore the Bible's literary techniques through a study of a select few writings that cover a variety of genres. The goal is to understand and appreciate more fully both the richness and the complexity of the biblical texts, as well as the importance of those texts to our culture.

The philosophy segment offers students a chance to reflect on their own personal views of themselves, the world, and their role in it. Select texts ask students to consider unique philosophical viewpoints and assessments will encourage them to explore and develop their own personal philosophy. Students will use the texts as a means to develop their views through thinking, writing and speaking.

Instructional Methods/Assessments:
Lecture, group discussion, assigned readings, and audio and visual aids will be used to teach this course material. Students will be assessed by means of quizzes, tests, essays, and oral presentations.

Recommended Background for Success:
Students must be willing to accept academic and intellectual challenges; students must exhibit a willingness to present both oral and written ideas.

FICTION & POETRY WORKSHOP 12 (REQUIRED OPTION B)

Elective or Required Option

Course #1220

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
Fiction and Poetry Workshop sharpens students' observations and use of imagery in writing description, characterization, dialogue, satire, memoirs, short stories and poetry. Writing journals, reading books and articles about the art of writing by published authors, building students' vocabulary skills, and working in groups sharing and discussing each other's writing will

also be part of this class. Students will focus on self-evaluation and personal improvement in their writing.

Instructional Methods /Assessments:
Lectures, group discussions, assigned readings, teacher and peer revisions will be used to teach this course material. Students will be assessed by means of development of special areas of writing, improvement on drafts of writing, and final projects.

Recommended Background for Success:
Students taking Fiction and Poetry Workshop 12 should be motivated to improve their already excellent writing skills. Students will be expected to keep up with all daily writing and reading assignments.

ENGLISH 12 SPEECH HYBRID (REQUIRED OPTION B)

Elective or Required Option

Course #1226

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
Students will get a chance in this course to refine their public speaking skills in front of their peers. The speeches assigned entail a variety of delivery modes and purposes. Students will practice listening skills, develop logical arguments and understand the relationship between nonverbal, interpersonal and small group communication. Additionally, students will evaluate the text and delivery of famous speeches to understand the craft of public speaking. As a hybrid class, students will meet as a whole class on a part-time basis. When students do not meet as a whole class, they will be completing coursework online.

Instructional Methods /Assessments:
Students will be assessed primarily through oral presentations. Lecture, discussion and demonstrations are the also methods for presenting course material; however, most of the class content is student speeches. Additionally, as a hybrid course, students will also be expected to complete online assessments via Schoology.

Recommended Background for Success:
Students must be motivated to develop and improve their oral communication skills. Successful students in this course are willing to put themselves and their ideas to an audience of their peers. The public nature of this class helps everyone learn from each other. Also, successful students are willing to make mistakes, and reflect upon them, to refine their public speaking skills. Independence, curiosity and technological resiliency are other important factors for success in this course. Students will interact with the instructor and fellow students online, so they must be able to work online and be resourceful when difficulties arise.

COMPOSITION FOR COLLEGE HYBRID (REQUIRED OPTION B)

Elective or Required Option

Course Number #1240

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
This course, modeled after an introductory college composition course, emphasizes writing in a variety of nonfiction modes. Students learn and use these writing techniques to help them prepare for success in college and other post-secondary settings. Students refine their writing process as well: planning, writing, and most importantly, revising their own work. Course readings include expository, analytical, personal narrative, and argumentative texts as models for students' own writing. As a hybrid class, students will meet as a whole class on a part-time basis. When students do not meet as a whole class, they will be completing coursework online.

Instructional Methods/Assessments:
Discussion, lecture, and writing conferences are the primary methods for presenting course material. Student assessments include a variety of written tasks. As a hybrid course, students are expected to complete some assessments online via Schoology.

Recommended Background for Success:
Students must be motivated to develop and improve their writing skills. They must be willing to write and work both collaboratively and independently to improve their own writing. As a hybrid course, students interact with the instructor and peers online, so they must be able to work online and be resourceful when difficulties arise. Independence, curiosity, and technological resiliency are other important factors of success.

JOURNALISM 12 (REQUIRED OPTION B)

Elective or Required Option

Course #1244

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
This course is a survey of journalism and media studies and an introduction to journalistic writing. Students will examine various non-fiction pieces, news articles, and videos to understand the art of communication through telling stories about the everyday world. The class will also analyze tone, audience, and purpose in these texts and compare/contrast the many types of media and journalism used in the 21st century. Students will produce a wide range of writing in various journalistic styles and conduct primary and secondary research. Student will also manage blogs for publishing their work. Blogging offers an authentic audience, collaborative work similar to the experience of real journalists, and the opportunity to demonstrate an understanding of ethics in journalism.

Instructional Methods/Assessments:
Discussion, lecture, readings, and conferences are the primary methods for presenting course material. There is occasional small group and partner work as some assessments require collaboration. Students' assessments include a variety of written tasks. This is a writing and reading focused course, but there are significant aspects of interpersonal communication work.

Recommended Background for Success:
Students who are curious about and willing to engage with the people and world around them will be good candidates for this course. Students must be motivated to expand their perspective and to develop and improve their writing skills. They must be willing to write and work both collaboratively and independently to tell others' stories and to thoughtfully and respectfully react and respond to today's issues. Independence, risk-taking and resiliency are other important factors of success.

AP LANGUAGE & COMPOSITION 12 (REQUIRED OPTION B)

Elective or Required Option

Course #AP104

Course #T704*, Tonka Online
***Select from S=summer F=fall or W=winter**

Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
AP Language and Composition is an introductory college-level course that prepares students to take the AP English Language and Composition exam, and may also enable students to gain advanced placement, college credit, or both. In this course, students analyze a broad and challenging range of nonfiction prose and trace the use of rhetoric in making arguments and appeals. Students will read and examine essays, letters, speeches, images, media messages, memoirs, and autobiographies from a variety of authors and historical contexts. Students will write several papers, exploring and using the rhetorical techniques learned, skills that will transfer to writing they will do in college and other post-secondary settings. Students taking this course are expected to take the AP Exam in the spring. Prior to beginning the course, students will receive summer reading selections and assignments.

Instructional Methods/Assessments:
Instructional methods include large and small group discussion, in-class writing, small

English

group evaluation of student papers, individual conferences with the teacher, and lecture. Students are assessed primarily through their writing of essays and texts.

Recommended Background for Success:
As this is a college-level course, Students will be challenged with college-level work. Effective time management will be important, as well as the ability and desire to read carefully and engage in thoughtful and lively discussions. Because of the demanding curriculum, students must bring sufficient command of mechanical conventions and an ability to read and discuss prose.

IB LANGUAGE & LITERATURE SL

Course #IB108, S1
Course #IB110, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Any English 10 or English 11 Course
See page 39

IB LITERATURE & PERFORMANCE SL

Course #IB112, S1
Course #IB114, S2
This course fulfills the Arts credit requirement.
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Any English 10 or English 11 Course
See page 39

IB LITERATURE HL

Course #IB120 Year 2, S1
Course #IB122 Year 2, S2
Grade(s) offered: 12
Credits: 2.0 (two-year course)
.5 (per semester)
Prerequisites: Year 2: IB Lit HL, Year 1
See page 39

VANTAGE: BUSINESS IN A GLOBAL ECONOMY

Course #V102
Grade(s) offered: 11-12
Credits: 3.0
Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL (business elective credit)
Prerequisites: Interest in global business; application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 117

VANTAGE: DIGITAL JOURNALISM

Course #V600
Grade(s) offered: 11-12
Credits: 2.0
Earning credits in Video Production (arts elective) and Communication Theory and Practice (required English credit)
Prerequisites: Interest in digital journalism. Application process.
Apply at www.TonkaVANTAGE.com
Course Description: see page 119

THEATER I

Elective
Course #1314
This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This course introduces actors to basic acting techniques of the theatre. Activities include improvisation, concentration exercises, ensemble-building, character analysis and development, monologue preparation, and scene preparation. At the end of the semester, students will have the opportunity to participate in a final workshop production.

Instructional Methods/Assessments:
Instructional methods include individual, partner, small group and large group exercises, hands-on activities, and independent work. Students are graded on active participation, skills and techniques of the actor, work ethic and attitude, commitment, and cooperation.

Recommended Background for Success:
No prior theater experience is needed; however, mature students are more likely to be successful in this class. Exercises and expectations demand concentration, focus, commitment and the ability to work cooperatively in group settings. Course requirements include active participation in daily class activities, and commitment to out-of-class assignments.

THEATER II

Elective

Course #1315

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Theater 1 or permission of instructor

Course Description:
This course focuses on advanced acting technique and allows the student to expand on his/her acting skills and expertise. Activities include relationship exploration, improvisation, scripted scene work, directing, and further development of voice, body, imagination, and ensemble as tools of the actor. At the end of the semester, students will have the opportunity to participate in a workshop production of scripted scene work.

Instructional Methods/Assessments:
Instructional methods include individual, partner, small group and large group exercises, hands-on activities, and independent work. Students are graded on active participation, skills and techniques of the actor, work ethic and attitude, commitment, and cooperation.

Recommended Background for Success:
The class is designed for students with a strong interest in performing. Mature students who are able to work well independently and with groups and who manage their time and meet deadlines will be most successful in this class. Students are strongly encouraged to take Theatre I before signing up for Theatre II.

DEBATE

Elective

Course #1322

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students will debate current issues and values, focusing on the analysis of current affairs and culturally based values in our world. Students will think, write and speak as they research a variety of topics presented in class. Students will learn the basic structure and theory of argumentation and debate. Students will also develop skills in research, writing, speaking and critical thinking. All written assignments center on arguments supporting both sides of a number of resolutions. Arguments are presented to the class in a cross-examination format and will often be countered by opposing positions researched by other students. Students will be evaluated on their ability to meet course objectives and complete various tasks.

Instructional Methods/Assessments:
Lectures and cooperative groups will be used to teach course material. Practice debates will also be used as a form of individual analysis critique. Students are assessed based on writing, speaking, researching and cooperative skills.

Recommended Background for Success:
Students should be interested in formulating, writing, analyzing and presenting arguments on topics of current interest. Cooperation and teamwork are necessary.

WRITING CENTER SEMINAR I: THEORY & PRACTICE FOR WRITING COACHES

Elective

Course #1324

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Admission through an application process

Course Description:
This course introduces students to the theory and practice of tutoring writing one-on-one in the MHS Writing Center. The course goals are for students to develop an in-depth understanding of the writing process, learn research-based strategies for strengthening writing skills, study communication skills necessary for working with peers on academic projects, and learn how to conduct successful one-to-one conferences with students from a variety of backgrounds and experiences. Students will read theory and research from scholarly journals and other texts, and they will write two major papers during the semester: an inquiry research paper into a topic relevant to writing, and a reflective essay on literacy and writing coaching. Through collaboration with the teachers, other students in the course, and writing tutors at local high schools and universities, students will become actively involved in a community of writing center professionals. After an initial period of apprenticeship, students will work in the Writing Center for a minimum of one hour per week, and they will have opportunities to mentor middle school students.

Instructional Methods/Assessments:
Instruction will take place in both classroom and online settings. Once a week, students will meet in person, and other assignments will be completed via Schoology and other online class platforms. Students will be assessed on level of participation in classroom discussions, responses to reading, engagement in online discussions, and two major papers. Fulfilling weekly commitments to coaching and Writing Center projects will also factor into the course grade.

Recommended Background for Success:
Students must be interested in writing and working one-on-one with students from all grades and backgrounds. Students applying for this course must have strong communication and time management skills, and be motivated to complete work both independently and work collaboratively with peers and teachers. Students must also have time in their schedule to meet once a week after school.

YEARBOOK I

Elective

Course #4038

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Application, interview and teacher recommendations

Course Description:
Students create the Voyageur Yearbook. The first part of the year, students learn how to gather information for pages, photograph activities and events, conduct interviews, write copy, and design layouts. Students then put those skills into practice throughout the year as they create the MHS Voyageur yearbook that will be published and distributed to students, staff, and the community. Yearbook students will meet in the summer before the school year starts to begin work on the book. Note: Yearbook is considered a yearlong class, so students should plan to take both Yearbook I & II to fully participate in all parts of the production of the yearbook.

Instructional Methods/Assessments:
The teacher and student editors will introduce and demonstrate concepts, materials, and techniques necessary for successful completion of pages. Experienced staff will work with new staff members to enhance training and support throughout the year. Students will be tested on yearbook knowledge (including photography, journalism, and design), but assessment will primarily be based on production of quality pages, finished by the deadline, that will be printed in the yearbook.

Recommended Background for Success:
Students must be reliable, organized, self-motivated and able to deal with the stress of deadlines, since student performance affects not only the individual, but the entire yearbook. Students are responsible for covering a number of activities outside of the school day, so they must have time and ability to get to those activities. Students must also be committed to finishing work by deadlines set by the production plant. Students interested and/or experienced in photography, journalism, and graphic design are an asset to the yearbook staff.

English

YEARBOOK II

Elective

Course #4039

This course completes .5 towards the Arts credit.

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Yearbook I

Course Description:
The second semester course will complete the yearbook and plan and produce the spring supplement for fall delivery. Time will also be spent planning the next year's book. In Yearbook II, students also learn the elements of art and the principles of design, as they apply to yearbook production. Note: Yearbook is considered a yearlong class, so students should plan to take both Yearbook I & II to fully participate in all parts of the production of the yearbook.

Instructional Methods/Assessments:
The teacher and student editors will introduce and demonstrate concepts, materials, and techniques necessary for successful completion of pages. Experienced staff will work with new staff members to enhance training and support throughout the year. Students will be tested on art & design concepts, as they apply to the yearbook, but assessment will primarily be based on production of quality pages, finished by the deadline, that will be printed in the yearbook and spring supplement.

Recommended Background for Success:
Students must be reliable, organized, self-motivated and able to deal with the stress of deadlines, since student performance affects not only the individual, but the entire yearbook. Students are responsible for covering a number of activities outside of the school day, so they must have time and ability to get to those activities. Students must also be committed to finishing work by deadlines set by the production plant. Students interested and/or experienced in photography, journalism, and graphic design are an asset to the yearbook staff.

The 2016-17 Minnetonka High School Yearbook Staff

English Language Learner Program

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5	1400	Beginning English I	English is not a student's first language. Qualifying scores on the English competency examination will determine a student's placement in the program.	9-12
.5	1402	Beginning English II		9-12
.5	1406	Intermediate English I		9-12
.5	1408	Intermediate English II		9-12
.5	1412	Advanced English I		9-12
.5	1414	Advanced English II		9-12
.5	1418	Science/Math I		9-12
.5	1420	Science/Math II		9-12
.5	1424	Social Studies/Reading I		9-12
.5	1426	Social Studies/Reading II		9-12

BEGINNING ENGLISH I AND II

Course #1400/1402

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: English is not student's first language. Qualifying test score on English competency examination

Course Description:
ELL is a mandated program for students who have a first language other than English. The basic areas of speaking, conversation, listening, reading, and writing are studied.

Instructional Methods/Assessments:
This course focuses on comprehension exercises, memorization and synthesis for vocabulary mastery, lecture for grammar instruction, group work, reading and exercises. Oral communication is emphasized. Assessments include daily work, tests, and quizzes.

INTERMEDIATE ENGLISH I AND II

Course #1406/1408

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: English is not student's first language. Qualifying test score on English competency examination

Course Description:
ELL is a mandated program for students who have a first language other than English. This course is for students who need further study in academic English. The basic areas of speaking, listening, reading, writing, and comprehension are studied.

Instructional Methods/Assessments:
This course focuses on writing, memorization and synthesis for vocabulary mastery, lecture, grammar instruction, reading exercises, and comprehension. Assessments included daily work, tests, and quizzes

Recommended Background for Success:
Students have limited, previous study of the English Language.

ADVANCED ENGLISH I AND II

Course #1412/1414

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: English is not student's first language. Qualifying test score on English competency examination

Course Description:
ELL is a mandated program for students who have a first language other than English. This course is for students who need further study in academic English. Emphasis is placed on the development of academic English through the study of literary classics.

Instructional Methods/Assessments:
This course focuses on comprehension and analysis of selected works, vocabulary mastery, lecture, grammar instruction, group work and individual projects involving Internet and media center research. Assessments include daily work, tests, quizzes, participation, and long-term projects.

Recommended Background for Success:
Students should have previous study of the English language.

SCIENCE/MATH I AND II

Course #1418/1420

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: English is not student's first language. Qualifying test score on English competency examination

Course Description:
This is a content-area class for students whose English proficiency is not sufficient for success in a mainstream science/math class. Students are instructed in the basic vocabulary and concepts of science and math to prepare them for mainstream classes and/or to support their success in mainstream classes.

Instructional Methods/Assessments:
This course focuses on technical reading for comprehension of basic science concepts in the areas of math, chemistry, biology, earth science, and physics, as well as memorization and synthesis for vocabulary. Assessments include daily work, tests, and quizzes.

Recommended Background for Success:
Students have no English or limited previous study of the English language.

SOCIAL STUDIES/READING I AND II

Course #1424/1426

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: English is not student's first language. Qualifying test score on English competency examination

Course Description:
This is a content-area class for students whose English proficiency is not sufficient for success in a mainstream class. Students are instructed in the basic vocabulary and concepts of social studies to prepare them for mainstream classes. A broad introduction to various social studies topics with emphasis on vocabulary and reading development is provided.

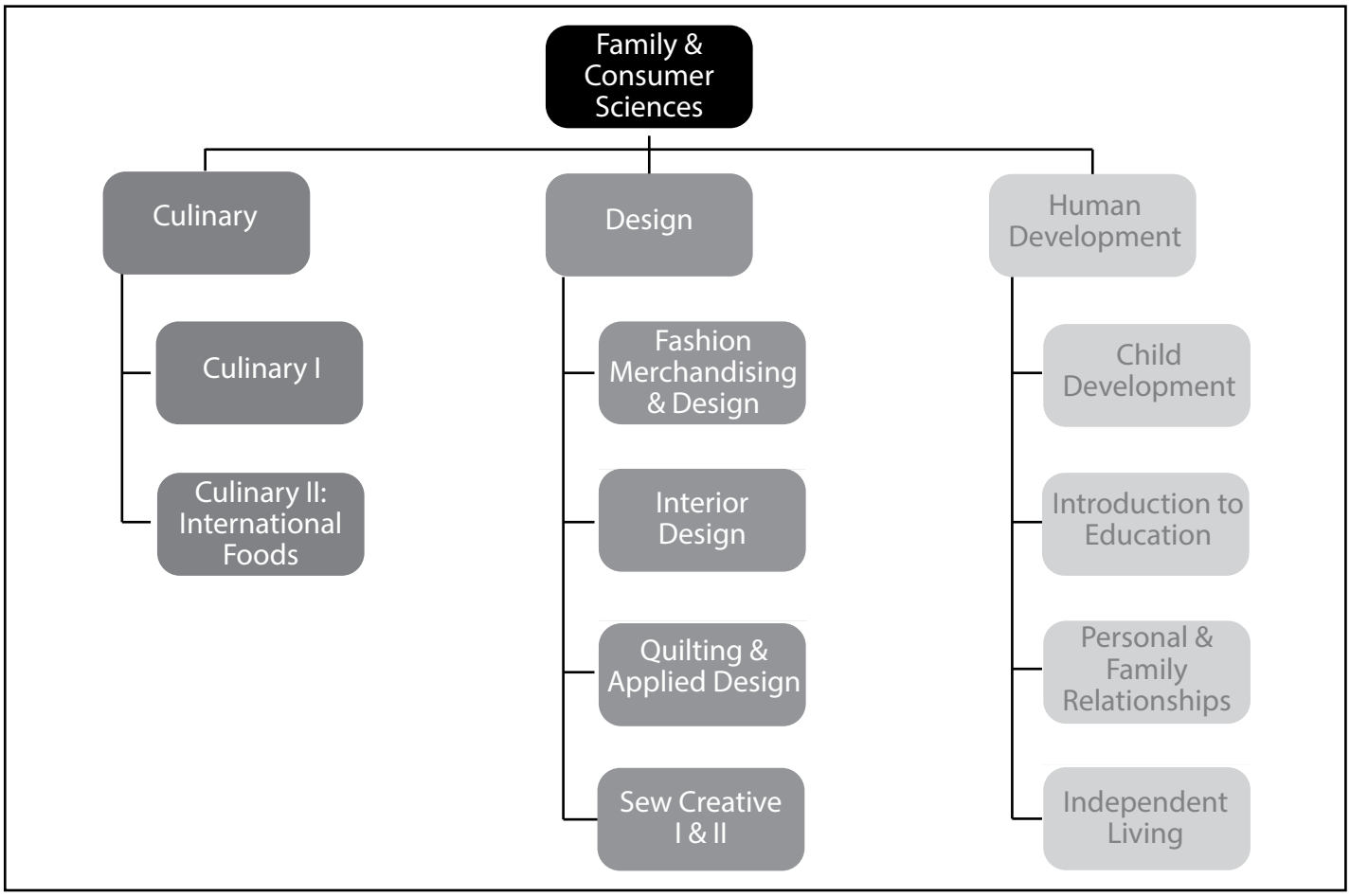
Instructional Methods/Assessments:
Reading comprehension exercises, vocabulary development, lecture for listening practice and composition practice. Assessments: Daily work, tests and quizzes.

Recommended Background for Success:
No English or limited study of the English language.

Family & Consumer Sciences

Family and Consumer Sciences is an academic discipline that combines characteristics of social and natural science, as well as the arts. Family and consumer sciences deal with the relationship between individuals, families, and communities. Our classes represent many disciplines including consumer science, nutrition, culinary arts, parenting, early childhood education, family economics and resource management, human development, financial independence, interior design, textiles, apparel design, and sewing as well as other related subjects. Classes are taught as electives, and some may count as an arts credit required for graduation. Our courses assist students in the transfer of reading, writing and math to real life. Our mission is to prepare students for family life, life in college and career life while educating them to identify and create alternative solutions to significant everyday challenges and to take responsibility of their actions in a diverse global society.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5	4500	Culinary I	None	9-12
.5	4504	Culinary II: International Foods	Culinary I	9-12
.5	4508	Sew Creative I	None	9-12
.5	4510	Sew Creative II	Sew Creative I	9-12
.5	4512*	Fashion Merchandising and Design*	None	10-12
.5	4514*	Quilting & Applied Design*	None	9-12
.5	4518*	Interior Design*	None	9-12
.5 .5	4522 T900	Independent Living Independent Living, Tonka Online Select Term: T900S/T900F/T900W	None	11-12
.5	4526	Child Development	None	10-12
.5	4528	Introduction to Education	None	11-12
.5	4530	Personal and Family Relationships	None	11-12
**Indicates student earns .5 credits toward the Art requirement.*				



Family & Consumer Sciences

CULINARY I

Course #4500

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course is one of the most popular electives at MHS! Whether you are an aspiring chef or a novice in the kitchen, this course will give you the confidence to be successful in the culinary world. Students will cover basic principles of food preparation and nutrition. Lab experiences include small group and individual labs, 2-3 days a week. Preparation techniques, safety, sanitation and nutritional information are emphasized. Students learn to prepare vegetables, fruits, grains, meat, poultry, breads, and pastries. Examples of labs include: Szechuan chicken, salsas, crepes, omelets, manicotti and artisanal pizzas.

Instructional Methods/Assessments:
Instructional methods include experiments and labs, lectures with presentations, demonstrations, guest speakers, research, discussions, group activities. Assessments include quizzes, tests, projects labs, and food competitions. iPads will be used frequently for exploration, collaboration and assessment.

Recommended for Success:
Reading, basic math. Students also need to be self-motivated and willing to participate in cooperative group environments.

CULINARY II: INTERNATIONAL FOODS

Course #4504

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Culinary 1

Course Description:
After developing a base knowledge of regional cuisine from the United States, students will "travel" to a different part of the world each week, exploring the culture and food from that area. Students learn advance culinary principles and cooking techniques used in different cultures. They are exposed to regional produce, spices and sauces. They will also explore the historical timeline and geographical influences on the cuisine. The majority of time is spent in culinary labs creating items from each region: including homemade pastas and sauces, spring rolls, sushi, lefse, chicken kiev, pad thai, chicken curry, soufflé, hummus and flan.

Instructional Methods/Assessments:
Instructional methods include guest speakers, presentations, demonstrations, labs and learning groups. Assessments include daily work, quizzes, tests, participation, labs and projects. (Optional field trip to global restaurants and markets.)

Recommended for Success:
Understanding of basic measurements and equivalents, cooking terms and techniques, and safety and sanitation. Curiosity about foods from around the world and the United States.

SEW CREATIVE I

Course #4508

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course is designed for the highly motivated student wishing to create fashion items and develop sewing skills. Projects include current fashions such as skirts, tops, dresses, mittens and accessories. Students will work independently at their own pace to complete required projects and samples. Students will learn to operate computerized sewing, embroidery and quilting machines. This is a perfect class for hands-on-learners who have a passion to produce their own creations.

Instructional Methods/Assessments:
Instructional methods include class demonstrations, lab/studio work, guest speakers, individual projects. Assessments include daily construction work, problem solving, quizzes, tests, participation and projects.

Recommended for Success:
Students should be creative, have patience, strong organizational skills and have an eye for detail. Basic math skills (measuring, addition, subtraction, multiplication and division), small motor skills and self-discipline are required for success in this course.

SEW CREATIVE II

Course #4510

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Sew Creative 1

Course Description:
Students in this course will have the opportunity to learn more advanced sewing techniques that can be used in clothing construction, accessories, or home decorating items. The students, based on their experience and skill, will choose their projects. Students will work independently to complete their projects.

Instructional Methods/Assessments:
Selecting, fitting, pattern use and construction techniques will be used to teach the course. Assessments include daily construction work, quizzes, tests, participation, and projects.

Recommended Background for Success:
Students should have basic math skills, measurement techniques, average skill for use of sewing machines, knowledge of sewing techniques, and motivation to advance in sewing skills.

FASHION MERCHANDISING & DESIGN

Course #4512

This course completes .5 towards the Arts credit
Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Students will learn about ready-to-wear, private label lines, and past, present and future trends in textiles, apparel manufacturing and retail sales. This course will increase students' awareness and understanding of career opportunities related to fashion merchandising and design. Fashion Merchandising and Design is an exciting, course that will meet the needs of students who desire to learn about fashion industry globalization, the changing consumer market, and the wonderful world of fashion. An opportunity to take an annual four-day field trip to New York City will be provided to enhance learning about fashion design and merchandising. This class is hands-on and project-based. Projects include draping, sketching, dying and paper dress creations.

Instructional Methods/Assessments:
Instructional methods include lectures, small and large group work, projects, guest speakers and optional field trip. Students are assessed on class work, projects, and tests.

Recommended Background for Success:
This class is designed for students with a strong interest in the world of fashion and design. Mature students who are able to work well independently and with groups and who manage their time well will be successful in this class.

QUILTING & APPLIED DESIGN

Course #4514

This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Quilting and Applied Design is a course where students will learn the basics of sewing and machine quilting. They will use computerized sewing machines. This class will provide opportunity to be creative and to learn by doing. There will be historical and cultural aspects of diversity in society studied through the vehicle of quilts from the past to the present. Students will apply mathematical calculations and technical reading skills as they sew their artistic designs. Other projects will include choices to learn embroidery, knitting, crocheting and more.

Family & Consumer Sciences

Instructional Methods/Assessments:
Instructional methods include class demonstrations, labs, guest speakers, and individual projects. Assessments include construction work, quizzes, tests, and projects.

Recommended Background for Success:
Students who are mature and can work well independently will be most successful in this class. Basic math skills, knowledge of measurement techniques, and motivation to sew and create are necessary for this class.

INTERIOR DESIGN

Course #4518
This course completes .5 towards the Arts credit
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Explore the field of Interior Design and learn how to use space, color and design to create beautiful environments. Through the use of computerized design programs and traditional design techniques, plan and decorate your own rooms and enjoy your creative side. The course will cover housing and furniture styles, principles and elements of design, floor plans, backgrounds, lighting, flooring and home accessories. Have fun, be creative and find out if this is a career option for you.

Instructional Methods/Assessments:
Instructional methods include lectures, discussions, individual projects, group projects, guest speakers, videos, a field trip, and demonstrations. Assessments include projects, exams, worksheets, and class activities.

Recommended Background for Success:
Your creativity will be the most helpful thing to bring with you!

INDEPENDENT LIVING

Course #4522
Course #T900*, Tonka Online
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course is designed to teach juniors and seniors successful strategies for life after high school. Topics include: college preparation, identity theft, resume writing, interviewing skills, building credit, renting an apartment, buying a car, obtaining insurance, budgeting, etc. Parents consistently claim they wish this class was required and past students email often with stories of using knowledge from class in the real world.

Instructional Methods/Assessments:
Instructional methods include guest speakers, discussions, problem solving, daily work and projects. Assessments include quizzes, tests, and projects.

Recommended Background for Success:
Students should have basic math skills (adding, subtracting, multiplication, and division) and effective study skills.

CHILD DEVELOPMENT

Course #4526
Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course examines child development from conception to preschool age. Topics include: fetal development; newborn and infant care; physical, intellectual, social and emotional development of the young child; and theories regarding child development. Students will explore the care of newborns by caring for a RealCare Baby over one weekend (optional). This class will encourage students to discover the main factors that affect human development at an early age. Students that earn a B or greater may receive credit from HTC. This course features the Tonka Tykes child care where students get hands-on experience teaching and guiding toddlers.

Instructional Methods/Assessments:
Instructional methods include lectures, discussions, guest speakers, videos, child observations, and class demonstrations. Assessments include class participation, projects, notes, exams and simulator babies.

Recommended Background for Success:
Your desire to learn and explore the development of children and any experience with children will help you be successful in this course.

INTRODUCTION TO EDUCATION

Course #4528
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Introduction to Education is for students interested in working with children ages 5-13. The first quarter of the semester will focus on the developmental stages of school age children. The second quarter will focus on teaching strategies and other career paths that work with children. Students enrolled in this course will be assigned to an elementary school 3 days per week during class time for the second quarter of class. While at the elementary school, they will have the opportunity to work one-on-one, with small groups and the whole class. Lifelong skills learned in this class include responsibility, leadership, teaching, encouraging creativity, communications and organization.

Instructional Methods/Assessments:
Instructional methods include discussion, presentations, guest speakers, group activities, guided practice. Assessments include journal entries, group and individual projects, quizzes, observations, practical applications and mentorship.

Recommended Background for Success:
Students need to be able to provide their own transportation to elementary schools on teaching days. Students need to be professional, self-motivated and possess strong reading and math skills.

PERSONAL AND FAMILY RELATIONSHIPS

Course #4530
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will help students develop skills and gain information in the area of interpersonal relationships and family life. Students will develop skills in the identification of healthy relationships and the strategies used to create and maintain them. Students will learn about relationships throughout a lifetime including studying Erik Erikson to analyze how their childhood has shaped their personality, comparing family dynamics and how they have changed over the past 100 years and components of healthy friendships, dating and marriage relationships. They will also study different types of communication along with how to handle crises.

Instructional Methods/Assessments:
Instructional methods include discussions, group activities, lectures, video, experiments, labs, and guest speakers. Assessments include class journal, notes, exams, class activities, and participation.

Recommended Background for Success:
A desire for strong relationships in life will be helpful in being successful in this course.

Health

CURRENT HEALTH TOPICS 9-12

Grade(s) offered: 9-12 (by the completion of senior year)
Credits: .5
Prerequisites: None
This course does not require registration.

***This embedded model is required for graduation for all students. These students do not have to register for a specific health course.**

Course Description:
This survey program is intended to introduce students to current topics in health throughout their four years in high school. The topics are explored at developmentally appropriate times so students are better able to face life's challenges related to personal health. The overall focus is to promote individual health and wellness within the community by providing instruction at critical times and by forming an open partnership with parents. Because of the unique nature of this program students will not have to register or schedule this into their individual educational plan. The instruction will be integrated into the school day throughout all four high school years. Student attendance and participation at each session are necessary throughout the program to meet the graduation requirement.

Instructional Methods/Assessments:
This program uses a variety of instructional methods which include lecture, self-assessments, application activities, large and small group discussions, problem-solving activities, online exercises, and expert speakers. Assessments will include personal activities, group projects, quizzes, and tests.

Recommended Background for Success:
Students should have effective study skills and be able to manage their time effectively. Basic math and writing skills will also be necessary.

International Baccalaureate (IB)

The International Baccalaureate Organization aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. To this end the IBO works with schools, governments, and international organizations to develop challenging programs of international education and rigorous assessment. These programs encourage students across the world to become active, compassionate, and lifelong learners who understand that other people, with their differences, can also be right. Students may pick and choose individual IB courses or complete the full Diploma Programme. Enrollment in IB courses is typically limited to students in grade 11 or 12, although there are some exceptions. Per IBO policies, students must be in grade 11 or 12 in order to take any IB Exam. It is expected that students electing IB SL, or IB HL year 2 courses will take the IB exam, for which there is a fee. There may be scholarships available for exams for those students in need.

The International Baccalaureate Diploma Programme at Minnetonka High School is a two-year course of study encompassing six curriculum areas. Enrollment in the full diploma program requires a meeting with the IB Coordinator at Minnetonka High School. Contact Laura Herbst, Advanced Learning Coordinator, at 952.401.5897.

NOTE: HL denotes Higher Level; SL denotes Standard Level.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
ART				
.5 .5	IB700 IB702	IB Visual Arts SL, S1 IB Visual Arts SL, S2	None	11-12
.5 .5	IB704 IB706	IB Visual Arts HL Year 1, S1 IB Visual Arts HL Year 1, S2	None	11
.5 .5	IB708 IB710	IB Visual Arts HL Year 2, S1 IB Visual Arts HL Year 2, S2	IB Visual Arts HL Year 1	12
BUSINESS				
.5 .5	IB900 IB902	IB Business Management SL, S1 IB Business Management SL, S2	None. Note: This course may also be taken through VANTAGE #V100 or #V102	11-12
2.0	V100	VANTAGE: Business Analytics IB Business Management SL/HL and AP Statistics see page 116 for course description	Interest in business and/or statistics Application process	11-12
3.0	V102	VANTAGE: Business in a Global Economy IB Business Management SL/HL; AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) see page 117 for course description	Interest in global business; Application process	11-12
COMPUTER SCIENCE				
.5 .5	IB620 IB622	IB Computer Science HL, S1 IB Computer Science HL, S2	AP Computer Science A	11-12
ENGLISH				
.5 .5	IB108 IB110	IB Language and Literature SL, S1 IB Language and Literature SL, S2	Any English 10 or English 11 course	11-12
.5 .5	IB112 IB114	IB Literature and Performance SL, S1 IB Literature and Performance SL, S2	Any English 10 or English 11 course	11-12
.5 .5	IB116 IB118	IB Literature HL Year 1, S1 IB Literature HL Year 1, S2	Any English 10 course	11
.5 .5	IB120 IB122	IB Literature HL Year 2, S1 IB Literature HL Year 2, S2	IB Literature HL Year 1	12
MATH				
.5 .5	IB600 IB602	IB Math Studies SL, S1 IB Math Studies SL, S2	Functions, Statistics & Trigonometry or permission from Adv Learning Coordinator	11-12
.5 .5	IB604 IB606	IB Mathematics SL, S1 IB Mathematics SL, S2	Precalculus (grade B or better) or Precalculus Honors (grade C or better)	11-12
.5 .5	IB608 IB610	IB Math HL Year 1, S1 IB Math HL Year 1, S2	Precalculus Honors (grade B or better)	11
.5 .5	IB612 IB614	IB Math HL Year 2, S1 IB Math HL Year 2, S2	IB Math HL Year 1	12
.5 .5 .5	IB615 IB616 IB618	IB Further Mathematics HL, summer (Independent work) IB Further Mathematics HL, S1 IB Further Mathematics HL, S2	IB Math HL Year 2 or AP Calculus AB and AP Statistics Students must enroll in all three courses.	12

International Baccalaureate (IB)

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
MUSIC				
.5 .5	IB712 IB714	IB Music SL, S1 IB Music SL, S2	Theory pre-test or AP Music Theory. Concurrent registration in Concert Choir, Treble Choir, Wind Ensemble, Concert Orchestra, Chamber Orchestra or Symphony Orchestra.	11-12
INTERNATIONAL BACCALAUREATE				
.5 .5	IB800 IB802	IB Theory of Knowledge, S1 IB Theory of Knowledge, S2	For students in the full IB Diploma Programme	11
.5 .5	IB804 IB806	IB Theory of Knowledge (non-diploma), S1 IB Theory of Knowledge (non-diploma), S2 *This course is for elective credit only.	None	11-12
SCIENCE				
.5 .5	IB500 IB502	IB Biology SL, S1 IB Biology SL, S2	Chemistry	11-12
.5 .5	IB508 IB510	IB Biology HL, S1 IB Biology HL, S2	IB Biology SL	12
.5 .5	IB512 IB514	IB Physics SL, S1 IB Physics SL, S2	Chemistry	11-12
.5 .5	IB516 IB518	IB Sports, Exercise and Health Science SL, S1 IB Sports, Exercise and Health Science SL, S2	Chemistry, Physical Science Note: This course may also be taken through VANTAGE #V200.	11-12
3.0	V200	VANTAGE Health Sciences: AP Psychology (social studies credit) Exercise Science Fitness A & Mental Health and Wellness B (required PE credit) IB Sports, Exercise and Health Science (science credit) see page 118 for course description	Physical science; algebra; interest in healthcare or sports medicine and science; Chemistry strongly recommended. Application process	11-12
SOCIAL STUDIES				
.5 .5	IB400 IB402	IB History of Europe HL Year 1, S1 IB History of Europe HL Year 1, S2	American Studies 10 Honors, AP U.S. History or Contemporary U.S. History	11
.5 .5	IB404 IB406	IB History of Europe HL Year 2, S1 IB History of Europe HL Year 2, S2	IB History of Europe HL, Year 1	12
.5 .5	IB408 IB410	IB Psychology SL, S1 IB Psychology SL, S2	None	11-12
.5 .5	IB412 IB414	IB Economics SL, S1 IB Economics SL, S2	None	11-12

WORLD LANGUAGES				
.5 .5	IB200 IB202	IB Chinese SL, S1 IB Chinese SL, S2	Chinese IV	11-12
.5 .5	IB204 IB206	IB Chinese HL, S1 IB Chinese HL, S2	Chinese SL	12
.5 .5 .5 .5	IM116, Year 1, S1 IM117, Year 1, S2 IM118, Year 2, S1 IM119, Year 2, S2	IB Language and Literature SL, Language A - Chinese Immersion (two-year course)	Chinese Humanities Honors (or with teacher recommendation: AP Chinese Language and Culture)	11 (year one) 12 (year 2)
.5 .5	IB208 IB210	IB French SL, S1 IB French SL, S2	French III Honors	11-12 11-12
.5 .5	IB212 IB214	IB French HL, S1 IB French HL, S2	French SL	12

International Baccalaureate (IB)

WORLD LANGUAGES				
.5 .5	IB332 IB334	IB Ab Initio French Year 1, S1 IB Ab Initio French Year 1, S2	None	9-12*
.5 .5	IB336 IB338	IB Ab Initio French Year 2, S1 IB Ab Initio French Year 2, S2	IB Ab Initio French Year 1	10-12*
.5 .5	IB340 IB342	French for the 3rd Language Learner (FTL) - Year 1, S1 French for the 3rd Language Learner (FTL) - Year 1, S2	Second language teacher recommendation	9-12*
.5 .5	IB344 IB346	French for the 3rd Language Learner (FTL) - Year 2, S1 French for the 3rd Language Learner (FTL) - Year 2, S2	French for the 3rd Language Learner (FTL) - Year 1	10-12*
.5 .5	IB224 IB226	IB German SL, S1 IB German SL, S2	German III	11-12
.5 .5	IB228 IB230	IB German HL, S1 IB German HL, S2	German SL	12
.5 .5	IB300 IB302	IB Ab Initio German Year 1, S1 IB Ab Initio German Year 1, S2	None	9-12*
.5 .5	IB304 IB306	IB Ab Initio German Year 2, S1 IB Ab Initio German Year 2, S2	IB Ab Initio German Year 1	10-12*
.5 .5	IB308 IB310	German for the 3rd Language Learner (GTL) - Year 1, S1 German for the 3rd Language Learner (GTL) - Year 1, S2	Second language teacher recommendation	9-12*
.5 .5	IB312 IB314	German for the 3rd Language Learner (GTL) - Year 2, S1 German for the 3rd Language Learner (GTL) - Year 2, S2	German for the 3rd Language Learner (GTL) - Year 1	10-12*
.5 .5	IB272 IB274	IB Spanish SL, S1 IB Spanish SL, S2	Spanish III Honors or IV G	11-12
.5 .5	IB276 IB278	IB Spanish HL, S1 IB Spanish HL, S2	Spanish SL	12
.5 .5	IM216 IM217	IB Language and Literature SL, Language A - Spanish Immersion	Spanish Humanities Honors (or with teacher recommendation: AP Spanish Language and Culture)	11-12
.5 .5	IM218 IM219	IB Language and Literature HL, Language A - Spanish Immersion	IB Language and Literature SL, Language A - Spanish Immersion	12
.5 .5	IM264 IM265	IB Individuals and Societies: Global Politics SL, Spanish Immersion	Spanish Immersion Enrollment	11-12
.5 .5	IB316 IB318	IB Ab Initio Spanish, Year 1, S1 IB Ab Initio Spanish, Year 1, S2	None	9-12
.5 .5	IB320 IB322	IB Ab Initio Spanish, Year 2, S1 IB Ab Initio Spanish, Year 2, S2	IB Ab Initio Spanish, Year 1	10-12
.5 .5	IB324 IB326	Spanish for the 3rd Language Learner (GTL) - Year 1, S1 Spanish for the 3rd Language Learner (GTL) - Year 1, S2	Second language teacher recommendation	9-12
.5 .5	IB328 IB330	Spanish for the 3rd Language Learner (GTL) - Year 2, S1 Spanish for the 3rd Language Learner (GTL) - Year 2, S2	Spanish for the 3rd Language Learner (GTL) - Year 1	10-12

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IB VISUAL ARTS SL OR HL

SL Course #IB700, S1
SL Course #IB702, S2
HL Course #IB704, Year 1, S1
HL Course #IB706, Year 1, S2
HL Course #IB708, Year 2, S1
HL Course #IB710, Year 2, S2

Grade(s) offered: 11-12
Credits: SL, 1 credit course
HL, 2 credit course
Prerequisites: None

Course Description:

Visual Arts SL: This one-year visual arts IB course follows a cultural approach to the visual arts in which research and art making is emphasized. This course links the core elements of art concepts, criticism and analysis, acquisition of technical and media skills, and the relationship of art to socio-cultural and historical contexts. Self-directed projects integrate work in the studio with workbook research. Students will create a portfolio of both two- and three-dimensional studio work building technical and media skills. Students maintain an investigation workbook detailing their plans, problems, successes, and critiques of studio work that they have produced. This course also fulfills the one credit art requirement for graduation from Minnetonka High School. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Visual Arts HL: The two-year visual arts IB course follows a cultural approach to the visual arts in which the process is equal to the product. This course continues to build the core elements of art concepts, criticism and analysis, acquisition of technical and media skills, and the relationship of art to socio-cultural and historical contexts from HL year one to HL year two. Self-directed projects integrate work in the studio with workbook research. Students will create a portfolio of both two- and three-dimensional studio work building technical and media skills. Development of a theme will be deepened during the second year. Students maintain an investigation workbook detailing their plans, problems, successes, and critiques of studio work that they have produced. This course also fulfills the one credit art requirement for graduation from Minnetonka High School. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB BUSINESS MANAGEMENT SL

Course #IB900, S1
Course #IB902, S2
This course may also be taken as part of VANTAGE #V100 or VANTAGE #V102.

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisite: None

Course Description:

Business and Management is designed to give students an understanding of business principles, practices, and skills. Emphasis is also placed on understanding technical innovation and day-to-day business functions of operations management, marketing, human resource management, and finance. A fundamental feature of this program is the concept of synergy. In its technical sense, an organization should seek an over-all return greater than the sum of its parts. Applied to the Business and Management program, the course necessitates a style of teaching and learning based on integrating and linking the various modules to give students a holistic overview of the field. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB LANGUAGE & LITERATURE SL

Course #IB108, S1
Course #IB110, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Any English 10 or English 11 course

Course Description:

IB Language and Literature SL is a year-long course offered to all juniors and seniors, including IB diploma candidates, who would take this class as an extra subject for their program. This course represents a new way of looking at language in action: key aims of the course are to encourage students to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. The textual focus of the course is evenly split between fiction and non-fiction, written and visual texts. A wider aim of the course is the development of an understanding of "critical literacy" in students of the course. Students examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. Students consider the way language is used in the media, including newspapers, magazines, the Internet, social networking, mobile telephone, radio and film. Through the close reading of literary texts, students are able to consider the relationship between literature and issues at large, such as power and identity. By looking closely at the detail of literary texts, students develop an awareness of their rich complexities and the intricacies of their construction. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB LITERATURE & PERFORMANCE SL

Course #IB112, S1
Course #IB114, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: English 10

Course Description:

Literature and Performance SL is a year-long course offered to all juniors and seniors who would take this class as an extra subject for their full IB program or for 11th or 12th grade English credit. Students will experience a unique synthesis of language and theater study in this class. The coursework incorporates essential elements of literature as well as performance and aims to explore the dynamic relationship between the two. At the heart of the course is this interaction between close readings of literature, critical writing, and practical, aesthetic and symbolic elements of performance. This course seeks to develop intellect, imagination and creativity. It encourages intercultural awareness through a study of texts (poetry, prose and drama) from cultures around the world. When students complete this course, they will also have fulfilled the art credit for graduation from MHS. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB LITERATURE HL

Course #IB116, Year 1, S1
Course #IB118, Year 1, S2
Course #IB120, Year 2, S1
Course #IB122, Year 2, S2

Grade(s) offered: 11-12
Credits: 2.0 (two-year course)
Prerequisites: English 10

Course Description:

IB Literature HL is a two-year course that is required for students seeking the IB Diploma, but is also available to all students who wish to further their critical reading and writing skills. It serves as a student's English credit for both 11th and 12th grade. This course encourages students to read literature in a deep, focused, interpretive manner while also fostering individual insights and thoughtful reflection. Thirteen valuable works of literature representing diverse voices and places encourage students to make connections between texts over time and between cultures. Students will explore texts' content and style. An important objective of the course is for students to become comfortable and confident with their individual understanding of the texts and

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to take steps toward independently developing that reaction into thoughtful literary responses. Another key aspect of the course is fostering an appreciation of the varied voices and perspectives present in literature from around the world. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments:
Students will write several short, analytical and original responses to their reading that often then shaped into longer, critical papers. In addition to writing, students will spend significant time developing their oral analytical skills. Much class time is devoted to literary discussion of the texts studied, and several informal and formal assessments are spoken tasks. Over the course of the two years, students will have many opportunities to participate in a wide variety of activities and assessments that require both individual and collaborative work.

Recommended Background for Success:
Students must be curious, motivated readers, thinkers and writers. They must be interested in looking closely at language and devising original ideas for their written and spoken responses from a variety of texts. Students should be willing to engage in frequent class discussions about the readings and to approach writing and speaking in an exploratory, intentional manner. Resiliency, risk-taking and a solid work ethic are other important qualities.

IB MATH STUDIES SL

Course #IB600, S1
Course #IB602, S2

Grade(s) offered:	11-12
Credits:	1 (year-long course)
Prerequisites:	Functions, Statistics & Trigonometry or permission from Advanced Learning Coordinator

Course Description:
IB Math Studies SL is designed to build confidence and encourage an appreciation of mathematics. IB Math Studies SL introduces students to some additional topics in geometry and higher algebra, then moves on to an introduction to precalculus, calculus, statistics, and probability. The mathematical topics apply to contexts related, as far as possible, to other curriculum subjects; to common general world occurrences; and to topics related to home, work, and leisure situations. There is also an extensive project required of students in the Studies curriculum. When students complete this course, they are ready for business calculus or first semester calculus as they begin college. Prerequisites for this course are, preferably, higher algebra and FST (functions, statistics, and trigonometry). In consultation with the Advanced Learning Coordinator, some students may be allowed to take the class after just higher algebra. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB MATHEMATICS SL

Course #IB604, S1
Course #IB606, S2

Grade(s) offered:	11-12
Credits:	1.0 (year-long course)
Prerequisites:	Completion of Precalculus (grade B or better) or Precalculus Honors (grade C or better)

Course Description:
Mathematics SL is a one-year course that caters to students who anticipate a need for a sound mathematical background in preparation for their future studies. The major topics covered in the course include precalculus (trigonometry), vectors, matrices, series and sequences, statistics and probability, and calculus. A written math project is also required of students. When students complete this course, they are ready for first or second semester calculus as they begin college. The prerequisite for this course is Precalculus Honors. With additional work, some students may be able to complete this course after regular precalculus. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB MATH HL

Course #IB608, Year 1, S1
Course #IB610, Year 1, S2
Course #IB612, Year 2, S1
Course #IB614, Year 2, S2

Grade(s) offered:	11-12
Credits:	2 (two-year course)
Prerequisites:	Precalculus Honors (grade B or better)

Course Description:
Math HL is a two-year class designed for students with sound preparation in mathematical analysis and technical skills. In this course, students will study advanced calculus and statistics topics where the primary focus will be preparation for the IB higher level math exam. A written math project is also required of students. Students in this course have post-high school plans which include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering, and technology. Other students take this course because they have a strong interest in math and enjoy taking up its challenges and tackling its problems. At the conclusion of year one of this course, many students take the AP exams in Calculus AB and Statistics. At the conclusion of year two of this course, many students take the AP exam in Calculus BC. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB FURTHER MATHEMATICS HL

Course #IB615, summer (independent work)
Course #IB616, S1
Course #IB618, S2

Grade(s) offered:	12
Credits:	1.5 (year-long course plus independent summer course, enroll in all three)
Prerequisites:	IB Math HL Year 2 or AP Calculus AB and AP Statistics

Course Description:
This course is for students who have attained a high degree of competence in a range of analytical and technical skills and display considerable interest in mathematics. The course is designed to expose students to a variety of topics from different branches of mathematics, while still allowing them to learn about deeper aspects of mathematics. The exams address five major topics—discrete mathematics (including number theory and graph theory); sets, relations, and groups; geometry; series and differential equations; and statistics and probability. Additionally, this course includes a substantial unit on calculus. Creative problem solving and logical reasoning, including proofs, will play an integral role in the course. Because of the large number of topics covered in this course, students will need to complete a semester of math coursework during the summer preceding the start of school in the autumn. If students have not yet completed IB Math HL year 2 or AP Calculus BC, they should concurrently enroll in one of those courses. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB COMPUTER SCIENCE HL

Course #IB620, S1
Course #IB622, S2

Grade(s) offered:	11-12
Credits:	1 (year-long course) .5 (per semester)
Prerequisites:	AP Computer Science A

Course Description:
IB Computer Science HL expands upon topics learned in AP Computer Science A, and includes program implementation and analysis (testing and debugging), data structures (arrays, stacks, queues, linked lists, binary trees), object-oriented programming (with Java), and algorithms (searching, sorting, recursion). Additionally, this course covers system fundamentals (components, human-computer interaction), computer organization (computer architecture, memory, operating systems,

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logic gates), networks (data transmission, wireless networking), resource management, and control. Throughout the course, the ethical and social implications of computing will be addressed. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, small-group and individual activities, and computer lab investigations. Assessments include tests, quizzes, homework, and projects.

Recommended Background for Success:
Students should have acquired a strong foundation of mathematical reasoning skills prior to attempting this course. The content in AP Computer Science A is essential to this course, and students must either have successfully completed AP Computer Science A or be concurrently enrolled in AP Computer Science A.

IB MUSIC SL

Course #IB712, S1
Course #IB714, S2
Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisite: Theory pre-test or AP Music Theory

Concurrent registration in Concert Choir, Treble Choir, Wind Ensemble, Concert Orchestra, Chamber Orchestra or Symphony Orchestra.

Course Description:
This course will examine the major style periods of Western music and explore the diversity of music throughout the world. Comparisons and observations will be made about art, society, and world events as they relate to the music style. The class emphases include the use of appropriate musical language and terminology to describe and reflect critically about music, the development of perceptual skills in response to music, and the knowledge and understanding of music in relation to time and place. Students will also identify composers, forms, cultural influences and style through developing critical listening skills. Extensive musical score study and aural study will provide the primary vehicle for accomplishing the goals of the course. Students are advised to take music theory before or while taking this course. Concurrent registration in Concert Choir, Wind Ensemble or Chamber Orchestra is required, as group performance assessment is a required part of the course and the IB internal assessments. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB THEORY OF KNOWLEDGE

Course #IB800, S1 (IB Diploma course)
Course #IB802, S2 (IB Diploma course)
Course #IB804, S1 (non-diploma course)
Course #IB806, S2 (non-diploma course)
Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: IB800, IB802: enrollment in full IB Diploma Programme

IB804, IB806: none

Course Description:
Theory of Knowledge (TOK) is a course that is about the process of knowing, rather than about learning a specific body of knowledge. It is a core element which all Diploma Programme students undertake, presenting opportunities for discussion and reflection. The TOK course identifies specific ways of knowing through which individuals gain personal and shared knowledge. They are language, sense perception, emotion, reason, imagination, and memory. The course also explores specific branches of knowledge including mathematics, the natural sciences, the arts, history, ethics, and indigenous knowledge systems. The TOK course examines how we know what we know and encourages students to consider questions that arise about those claims to knowledge.

IB BIOLOGY SL & IB BIOLOGY HL

SL Course #IB500, S1
SL Course #IB502, S2
HL Course #IB508, S1
HL Course #IB510, S2
Grade(s) offered: 11-12
Credits: 1 (Each Year)
Prerequisites: Chemistry for IB Biology SL; IB Biology SL for IB Biology HL

Course Description:
IB Biology SL will concentrate on cell biology, biochemistry, DNA and biotechnology, genetics, and evolution. The pace is rigorous due to the nature of the course requirements and is best suited for the self-directed learner. During year two, HL Biology covers additional topics on biotechnology, evolution, human physiology, ecology and conservation, and botany. For required work in the SL and HL courses, students should be comfortable with independent learning, individual labs, their analytical skills in mathematics and with handling and processing lab data using Excel. The IB Biology courses are designed to meet strict curriculum requirements so students can take the IB examinations with confidence. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB PHYSICS SL

Course #IB512, S1
Course #IB514, S2
Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: Chemistry

Course Description:
IB Physics SL teaches physics and physical measurement, mechanics, thermal physics, waves, electricity and magnetism, as well as atomic and nuclear physics. Additional topics may include mechanics extension, quantum physics and nuclear physics, and/or energy extension. Students are assessed on their understanding of concepts as well as their abilities to work within the scientific method. IB Physics SL teaches physics and physical measurement, mechanics, thermal physics, waves, electricity and magnetism, as well as atomic and nuclear physics. Additional topics may include mechanics extension, quantum physics and nuclear physics, and/or energy extension. Students are assessed on their understanding of concepts as well as their abilities to work within the scientific method. At

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the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB SPORTS, EXERCISE AND HEALTH SCIENCE SL

Course #IB516, S1
Course #IB518, S2
This course may also be taken as part of VANTAGE #V200.

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Chemistry, Physical Science

Course Description:
This course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology, and nutrition that are studied in the context of sport, exercise, and health. Students will cover a range of core and option topics and carry out practical, experimental investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of internationalism and ethics by considering sport, exercise, and health relative to the individual and in a global context. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB HISTORY OF EUROPE HL

Course #IB400, Year 1, S1
Course #IB402, Year 1, S2
Course #IB404, Year 2, S1
Course #IB406, Year 2, S2

Grade(s) offered: 11-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisites: American Studies 10 Honors, AP U.S. History or Contemporary U.S. History

Course Description:
This course is a two-year introduction to contemporary world history. The first year of the course begins with units that include the Industrial Revolution in Britain, Europe, and Japan as well as a study of Imperial Russia, revolutions and the emergence of the Soviet State. In addition, the course will also address the effect of the First World War, Weimar Germany, and the rise of Hitler, Mussolini and Stalin. The senior year begins with units on the Spanish Civil War, the study of Japanese, German, and Italian expansion leading up to World War II, as well as a study of World War II itself. These units are followed by post-WWII studies of Japan and China. The course is reading and writing-intensive, with an emphasis on discussion and inquiry. While the main focus is on modern European history, the course will also take a broader, more international approach to world history topics, including the origins and effects of industrialization and the rise and rule of single-party states. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB PSYCHOLOGY SL

Course #IB408, S1
Course #IB410, S2

Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: None

Course Description:
IB Psychology examines the interaction of biological, cognitive and sociocultural influences on human behavior. Students in IB Psychology will develop an understanding of how psychological knowledge is generated, developed and applied. IB Psychology will help students achieve a greater understanding of themselves and an appreciation for the diversity of human behavior. Students will develop critical analysis skills through examination of ethical concerns raised by the methodology and application of psychological research. The students will be engaged in a variety of practical activities including observations, experiments, and interviews. There is an emphasis on writing as a way of thinking. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB ECONOMICS SL

Course #IB412, S1
Course #IB414, S2

Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: None

Course Description:
This one-year course covers macroeconomics and microeconomics as well as development and international economics. Working within the fundamental principles of scarcity and choice, students will develop an understanding of how economic theory affects us all in our personal, business and global environments. By the completion of this course, students will be able to evaluate, explain and critique a wide variety of economic topics such as fiscal policy, the business cycle, Keynesianism and monetarism, protectionism and free trade, models for countries' economic growth and pricing policy. Students who will thrive in this course will have an ability to understand and evaluate abstract concepts; will be capable of analyzing, criticizing and debating current world issues; and will enjoy a discussion/debate oriented class environment. Students will also be prepared to take both the AP Macroeconomics and Microeconomics exams if they choose. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB CHINESE SL

Course #IB200, S1
Course #IB202, S2

Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: Chinese IV

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB CHINESE HL

Course #IB204, S1
Course #IB206, S2

Grade(s) offered: 12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: Chinese SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn

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much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB LANGUAGE AND LITERATURE SL, LANGUAGE A - CHINESE IMMERSION

Course #IM116, Year 1, S1
Course #IM117, Year 1, S2
Course #IM118, Year 2, S1
Course #IM119, Year 2, S2

Grade(s) offered: 11 (year 1); 12 (year 2)
Credits: 2.0 (two-year course)
Prerequisites: Chinese Humanities Honors (or with teacher recommendation: AP Chinese Language and Culture)

Course Description:
This course represents a new way of looking at the Chinese language in action: key aims of the course are to encourage students to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. The textual focus of the course is split between Chinese fiction, nonfiction, written and visual texts. A wider aim of the course is the development of an understanding of "critical literacy" in students of the course. Students examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. Students consider the way the Chinese language is used in the media, including newspapers, magazines, the Internet, social networking, mobile telephone communication, radio, and film. At the conclusion of this two-year course, it is expected that students will take the IB SL Exam, for which there is a fee.

Instructional Methods/Assessments:
In Chinese, students participate in a wide variety of classroom activities and assessments including large and small group work, discussion, close reading activities, formal analytical writings, research writing, presentations, and projects. For advanced and motivated students, there will be an option to take this exam at the HL level. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of Chinese Immersion Language Arts courses at the AP and beyond AP level. Students must be curious and motivated readers, writers and thinkers in the target language. They must be interested in looking closely at language in traditional and nontraditional forms.

IB FRENCH SL

Course #IB208, S1
Course #IB210, S2

Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: French III Honors

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB FRENCH HL

Course #IB212, S1
Course #IB214, S2

Grade(s) offered: 12
Credits: 1 (year-long course)
Prerequisites: French SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB AB INITIO – FRENCH

Course #IB332, Year 1, S1
Course #IB334, Year 1, S2
Course #IB336, Year 2, S1
Course #IB338, Year 2, S2

Grade(s) offered: 9-12
Credits: 2 (two-year course)

Course Description:
IB Ab Initio is a highly rigorous two-year program for juniors and seniors. It is designed to give students with little or no prior French language experience IB language acquisition credit. This course fulfills the needs of students who wish to earn an IB diploma or certificate credit but who did not start learning this language as underclassmen. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of French 1, 2 Honors, and 3 Honors. In year two, students will complete a series of tests that measure their speaking, writing, listening, and reading capabilities that are assessed by their teacher and/or the IB organization. Ab Initio students are expected to take the Standard Level IB Exam, for which there is a fee.

FRENCH FOR THE 3RD LANGUAGE LEARNER (FTL)

Course #IB340, Year 1, S1
Course #IB342, Year 1, S2
Course #IB344, Year 2, S1
Course #IB346, Year 2, S2

Grade(s) offered: 9-12
Credits: 2 (two-year course)
Prerequisite: K-8 Language Immersion or students who have been successful in their prior language learning. Students will need to submit a recommendation written by a previous

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second language teacher (Spanish, German, Chinese, etc.). Though this is designed as a two-year course, seniors who meet the prerequisite are able to take this course for one year.

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn French as a third language. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of French I, II Honors, and III Honors. Upon successful completion of this two-year course, students may register for IB French SL, French 4 Honors, or French 4 General.

IB GERMAN SL

Course #IB224, S1
Course #IB226, S2
Grade(s) offered: 11-12
Credits: 1 (year-long course)
Prerequisites: German III

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB GERMAN HL

Course #IB228, S1
Course #IB230, S2
Grade(s) offered: 12
Credits: 1 (year-long course)
Prerequisites: German SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB AB INITIO – GERMAN

Course #IB300, Year 1, S1
Course #IB302, Year 1, S2
Course #IB304, Year 2, S1
Course #IB306, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)

Course Description:
IB Ab Initio is a highly rigorous two-year program for juniors and seniors. It is designed to give students with little or no prior German language experience IB language acquisition credit. This course fulfills the needs of students who wish to earn an IB diploma or certificate credit but who did not start learning the language as underclassmen. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of German 1, 2, and 3. In year two, students will complete a series of tests that measure their speaking, writing, listening, and reading capabilities that are assessed by their teacher and/or the IB organization. Ab Initio students may only test Standard Level.

GERMAN FOR THE 3RD LANGUAGE LEARNER (GTL)

Course #IB308, Year 1, S1
Course #IB310, Year 1, S2
Course #IB312, Year 2, S1
Course #IB314, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisite: K-8 Language Immersion
or students who have been successful in their prior language learning. Students will need to submit a recommendation written by a previous second language teacher (Spanish, German, Chinese, etc.). Though this is designed as a two-year course, seniors who meet the prerequisite are able to take this course for one year.

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn German as a third language. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of German 1, 2, and 3. Upon successful completion of this 2 year course, students may register for IB German SL.

IB SPANISH SL

Course #IB272, S1
Course #IB274, S2
Grade(s) offered: 11-12
Credits: 1 (year-long course)
Prerequisites: Spanish III Honors or IV G

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform

International Baccalaureate (IB)

for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB SPANISH HL

Course #IB276, S1
Course #IB278, S2

Grade(s) offered: 12
Credits: 1 (year-long course)
Prerequisites: Spanish SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles; Internet news reports; and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises; an essay section, which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB LANGUAGE AND LITERATURE SL, LANGUAGE A - SPANISH IMMERSION

Course #IM216, S1
Course #IM217, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Spanish Humanities Honors (or with teacher recommendation: AP Spanish Language and Culture)

Course Description:
This course represents a new way of looking at the Spanish language in action: key aims of the course are to encourage students to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. The textual focus of the course is evenly split between fiction, nonfiction, written and visual texts in the Spanish language. A wider aim of the course is the development of an understanding of "critical literacy" in students of the course. Students examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. Students consider the way the Spanish language is used in the media, including newspapers, magazines, the Internet, social networking, mobile telephone communication, radio, and film.

Instructional Methods/Assessments:
In Spanish, students participate in a wide variety of classroom activities and assessments including large and small group work, discussion, close reading activities, formal analytical writings, research writing, presentations, and projects. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of Spanish Immersion Language Arts courses at the AP and beyond AP level. Students must be curious and motivated readers, writers and thinkers in the target language. They must be interested in looking closely at language in traditional and nontraditional forms.

IB LANGUAGE AND LITERATURE HL, LANGUAGE A - SPANISH IMMERSION

Course #IM218, S1
Course #IM219, S2

Grade(s) offered: 12
Credits: 1.0 (year-long course)
Prerequisites: IB Language and Literature SL, Language A - Spanish Immersion

Course Description:
This IB HL course is a direct continuation of the IB Language and Literature SL course, and involves the study of additional texts and topics in the Spanish language. Students will continue to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. Like SL, the HL course will be evenly divided between fiction, nonfiction, written and visual texts. Students will examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. The HL focus shifts to literary critique, text evaluation and analysis, and comparative analysis between texts.

Instructional Methods/Assessments:
In Spanish, students participate in a wide variety of classroom activities and assessments including large and small group work, discussion, close reading activities, formal analytical writings, research writing, presentations, and projects. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of IB Language and Literature SL, Language A - Spanish Immersion. Students must be curious and motivated readers, writers and thinkers in the target language. They must be interested in looking closely at language in traditional and nontraditional forms.

IB INDIVIDUALS AND SOCIETIES: GLOBAL POLITICS SL, SPANISH IMMERSION

Year-long social studies elective course which can be applied to the 12th grade required social studies credit

Course #IM264, S1
Course #IM265, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Current enrollment in the Spanish Immersion Program

Course Description:
This course aims to develop international mindedness and an awareness of multiple perspectives while studying contemporary political issues around the world. Students will study real world examples and case studies to examine and experience the way political issues are addressed and connected across different levels of global politics. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

This course contains a common core entitled "people, power and politics" and consists of four core units:

- power, sovereignty and international relations
- human rights
- development
- peace and conflict

Instructional Methods/Assessments
This course will be conducted and assessed entirely in Spanish. It follows the IB assessment requirements, which include a common internal assessment task, an engagement activity, as well as an assessed written report. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

International Baccalaureate (IB)

IB AB INITIO – SPANISH

Course #IB316, Year 1, S1
Course #IB318, Year 1, S2
Course #IB320, Year 2, S1
Course #IB322, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)

Course Description:
IB Ab Initio is a highly rigorous two-year program for juniors and seniors. It is designed to give students with little or no prior Spanish language experience IB language acquisition credit. This course fulfills the needs of students who wish to earn an IB diploma or certificate credit but who did not start learning this language as underclassmen. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced, two-year course will cover the traditional scope of Spanish I, II Honors, and III Honors.

In year two, students will complete a series of tests that measure their speaking, writing, listening, and reading capabilities that are assessed by their teacher and/or the IB organization. Ab Initio students may only test Standard Level.

SPANISH FOR THE 3RD LANGUAGE LEARNER (STL)

Course #IB324, Year 1, S1
Course #IB326, Year 1, S2
Course #IB328, Year 2, S1
Course #IB330, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)
Prerequisite: K-8 Language Immersion or students who have been successful in their prior language learning. Students will need to submit a recommendation written by a previous second language teacher (Spanish, German, Chinese, etc.). Though this is designed as a two-year course, seniors who meet the prerequisite are able to take this course for one year.

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn Spanish as a third language.

The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of Spanish I, II Honors, and III Honors. Upon successful completion of this two-year course, students may register for IB Spanish SL, Spanish IV Honors, or Spanish IV General.

The Class of 2017 IB Diploma Candidates turn in their Extended Essays (EE) and thank their EE advisors.

International Studies

International Studies & Exchange is an independent study course where each student establishes a relationship with one student in either China, Russia, Serbia, Germany, South Africa, India, Netherlands, Spain, Norway or Greece and then completes specific assignments with their correspondent throughout the year. These assignments require (among other things) comparison of cultures, school systems, economies, challenges facing their nations and personal family history. Students communicate with their international partner about one to three times a week using Skype, e-mail and Facebook; and attend class twice a month (during zero hour). The program contains the potential to both travel abroad and host a foreign student. All travel and hosting opportunities are optional. The exception to this is the German program (see below). Students who have success in the program receive a semester credit which is graded and placed on their school transcript.

While the benefits of the International Studies & Exchange program are many and varied, our core mission is to provide an opportunity for students to gain an international perspective and establish cross-cultural skills which will insure their success in future global environments. Participating students have the opportunity to: Develop an awareness of cultural difference; understand world view and its role in intercultural competence, communicate, and behave effectively in intercultural situations.

As an independent study course, students are required to complete most coursework outside of the regular school day. There are eight major topics addressed in a series of assignments for each month of the academic year. Assignments and assessments include essays, research projects, online discussion boards, and multimedia projects and presentations. Students are also required to attend small group meetings to discuss and reflect on their learning.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5	IS100	International Studies & Exchange - China	Admittance through application process	10-12
.5	IS102	International Studies & Exchange - Russia	Admittance through application process	10-12
.5	IS104	International Studies & Exchange - Serbia	Admittance through application process	10-12
.5	IS106	International Studies & Exchange - Germany	Admittance through application process	10-12
.5	IS108	International Studies & Exchange - South Africa	Admittance through application process	10-12
.5	IS110	International Studies & Exchange - India	Admittance through application process	10-12
.5	IS112	International Studies & Exchange - Netherlands	Admittance through application process	10-12
.5	IS114	International Studies & Exchange - Spain	Admittance through application process	10-12
.5	IS116	International Studies & Exchange - Norway	Admittance through application process	10-12
.5	IS118	International Studies & Exchange - Greece	Admittance through application process	10-12

CHINA INTERNATIONAL STUDIES

Course #IS100

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

In the Chinese program you will be paired with a student from The Experimental High School Attached to Beijing Normal University, one of the top schools in all of China. Students visit from China every year for 2-3 weeks in January/ February. International Studies students who are interested in traveling to China do so by accompanying the foreign language trip which goes approximately every other year in May or in June after school is out.

RUSSIA INTERNATIONAL STUDIES

Course #IS102

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

In the Russia program you will be paired with a student from the Derzhavinski Lyceum. Located in the city of Petrozavodsk the Lyceum is one of the most modern schools in Northwest Russia in terms of technology and educational philosophy. Russian students visit MHS approximately every other year for four days to two weeks in late September or October. A trip to Russia is offered approximately every other year. Sophomores and Juniors who are in the program in a non-travel year are invited to travel (and/or host) in subsequent years.

SERBIA INTERNATIONAL STUDIES

Course #IS104

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

In the Serbia program you will be paired with a student from Gimnazija Zarko Zrenjanin, in Vrbas. This school is one of the best schools in the Vojvodina region of Serbia. This program is a great opportunity to meet a student from a country with a unique perspective. Serbian students do not visit Minnetonka and no trip to Serbia is offered. Students in the Serbia program are invited to travel to Russia.

GERMANY INTERNATIONAL STUDIES

Course #IS106

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

Minnetonka students are partnered up with German students who live in and around the city of Hamburg. Hamburg is Germany's second largest city and sits on the Elbe River making it an important international harbor city. The German school (or gymnasium) is called Wichern Schule. It is a private protestant, state-supported school with a student population of approximately 500–600 students in primary grades through 12th grade and is located in the heart of the city.

The school website is http://www.wichern-schule.de/ Be sure to click on the "translation" button in the upper right-hand corner to convert the website from German to English.

Both German and Minnetonka students will visit each other for approximately two weeks, staying with homestay families connected to the International Studies Program. Minnetonka students in the German program are expected

International Studies

to host in February–March and are strongly encouraged to travel to Hamburg (mid- to late June). A biography for German registrants will also be required by early May to pair them up with their partners in Hamburg before the end of the school year.

SOUTH AFRICA INTERNATIONAL STUDIES

Course #IS108

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

The International Studies program at Minnetonka High School is currently partnered with two schools in Cape Town South Africa. Males who register for this course will be partnered with students at the Rondebosch Boys High School, while females will be partnered with students at the Wynberg Girls School. Rondebosch was founded in 1897 and is considered one of the most academically rigorous schools in South Africa. Boys who attend this school come from a variety of backgrounds and can choose to either commute to the school on a daily basis or board at the facilities on campus. A link to the school website is included for further investigation. http://www.rondebosch.com/high/

Wynberg was founded in 1884 and is also considered one of the most academically rigorous schools in South Africa. Girls who attend this school are expected to earn "Honor before Honors" and take an effective role in democratic South Africa. As with Rondebosch, students can either commute daily to the school or stay in a hostel on campus. A link to the school website is included for further investigation. http://www.wynghs.co.za/

Trips to South Africa are proposed every year and are open to all the students who have or are participating in the South Africa International Studies program, and Minnetonka may be hosting students from South Africa within the next two years.

INDIA INTERNATIONAL STUDIES

Course #IS110

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

The International Studies Program at Minnetonka High School is partnered with the Singapore International School in Mumbai, India. The school is k-12 and is all IB. It is one of the top performing schools in South East Asia and has a total student population of around 500. Students can choose to either commute on a daily basis or board at the facilities on campus. Although located in the metropolis of Mumbai, the school backs up to the Sanjay Gandhi National Park and is a well-maintained oasis in the heart of a major city. A link to the school website is included for further investigation. http://www.sisindia.net/sis/default.htm

Trips to India are proposed yearly and are open to all students who have or are participating in the India International Studies program. Minnetonka has hosted students from India the past two years, and may do so again in the future.

NETHERLANDS INTERNATIONAL STUDIES

Course #IS112

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

Minnetonka students are partnered up with Dutch students who live in and around the area of The Haag, South Holland, The Netherlands. This is an important international city forty-five minutes south of Amsterdam. The Dutch school (or gymnasium) is called Sorghvliet (pronounced - /sorg - vaah - leet/) and is located in the heart of the city with a student population of approximately 700 students in six grade levels.

The school website is http://www.gymnasium-sorghvliet.nl/ Be sure to click on the "translation" button in the upper right-hand corner to convert the website from Dutch to English.

Both Dutch and Minnetonka students will visit each other for approximately one week staying with homestay families connected to the International Studies Program.

SPAIN INTERNATIONAL STUDIES

Course #IS114

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

In the Spain program, you will be paired with a student from the School of San Ignacio in the northern city of Oviedo, Spain. Throughout the year, students 1) study cultural differences with assignments, readings and classroom discussions and 2) connect via technology with their partner to form friendships. Visits either from Spain or to Spain are proposed every year, and so may vary from year to year. You can find more information regarding our partner school at http://s-ignacio.com.

NORWAY INTERNATIONAL STUDIES

Course #IS116

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

In the Norwegian program through International Studies, students at Minnetonka are paired with students from Porsgrunn Upper Secondary or High School (PHS) in Porsgrunn, Norway. It is a town in the county of Telemark. Its existence is due to a favorable position and a good harbor. The district has a stretch of forest, lakes and farmland areas and is not too far from the mountains making is easy to get to ski resorts. PHS has a total of 1,150 students and about 170 employees. It is one of 24 schools in Norway to offer an IB Diploma Program.

Travel to Norway is encouraged and currently Minnetonka students will visit Norway for 10-14 days in February or March with homestays at the families of their Norwegian partners. Should the Norwegian students visit, they will be hosted by their partner families in the program at MHS. A biography for the MHS students registering for Norway is required by early to mid-May to pair them up with their partners in Porsgrunn in early to mid-summer.

GREECE INTERNATIONAL STUDIES

Course #IS118

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Admittance through application process

This is the first year of the Greece International Studies Program at MHS! We are partnering with ACS Athens, an American Community School. It is a K-12 School with both IB Diploma and AP programs in the upper grades. While following American educational philosophy, principles and values, it is very much an international school in the heart of Athens, and is steeped in Greek culture. Minnetonka students enrolling in this course will be paired with a student from ACS Athens, and during this inaugural year will play an important role in shaping the course. Please visit www.acs.gr to learn more about our sister school in Athens, Greece.

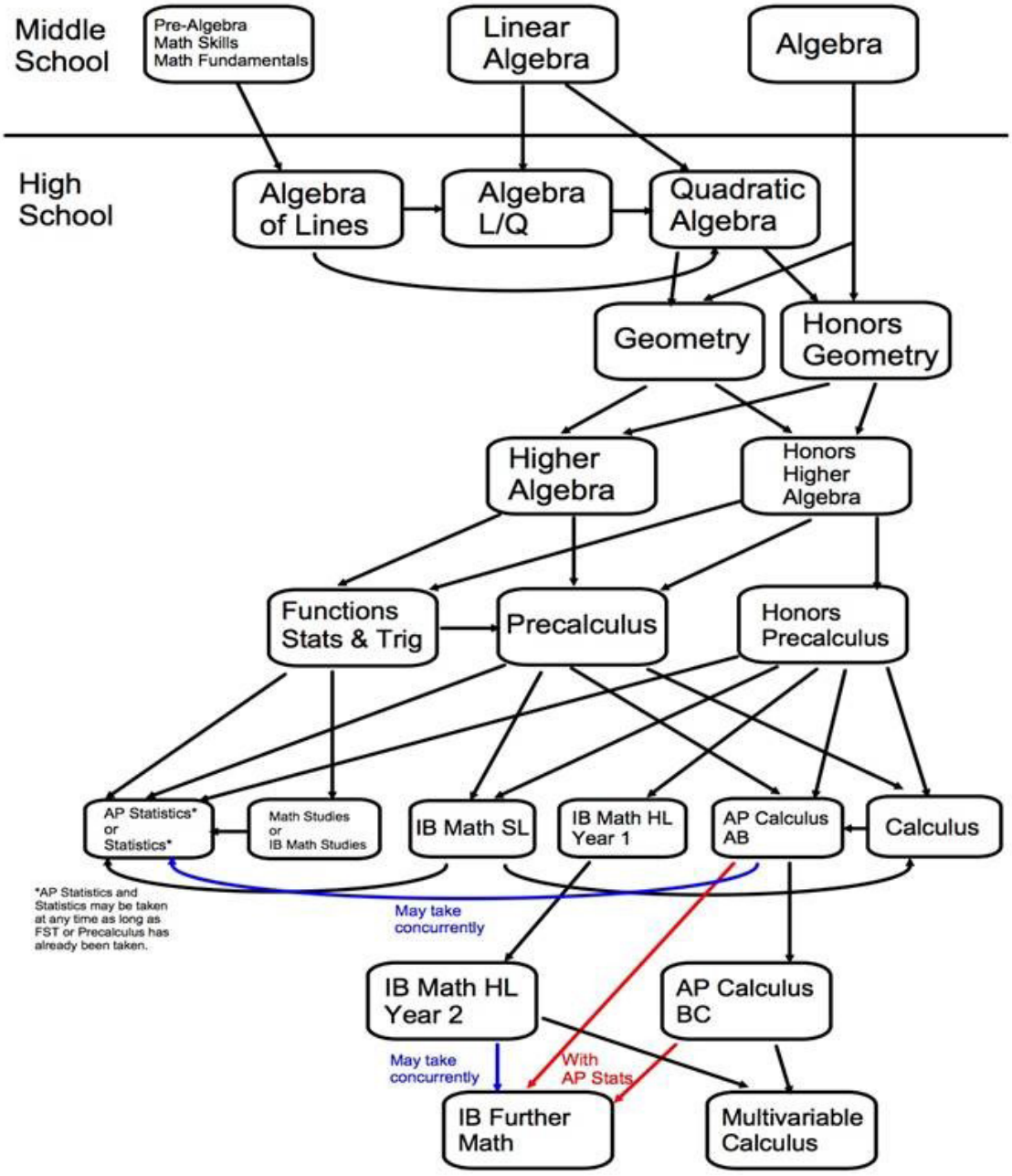
Travel to Athens is under consideration and is currently being explored as a possibility for future years, though no trip is planned for the 2017-2018 school year.

Mathematics

The mathematics department at MHS offers a variety of courses that range from basic math skills to AP and IB college-level mathematics. Due to the structured and sequential nature of mathematics, good attendance and a commitment to daily homework are requirements for all mathematics classes. Failure to complete one of these sequences in high school means that the student will have to complete it in college prior to taking calculus.

Accelerate your math sequence through Tonka Online

- Students who wish to accelerate their math sequence may consider enrolling in Tonka Online to complete three years of math in two years by taking advantage of summer courses.
- Students who wish to enroll in Precalculus or AP Statistics but do not meet the prerequisites to move from Higher Algebra to Precalc or AP Statistics may wish to enroll in Tonka Online summer semester prep courses in Functions, Stats & Trig to fulfill the prerequisite.
- See page 104 for more information about Tonka Online or visit www.TonkaOnline.org.
- **Please note**: Fees apply for summer courses and if students take more than six classes in a semester.



Mathematics

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	GRADE(S)
0.5 0.5	2902 2903	Algebra of Lines, S1** Algebra of Lines, S2**	Teacher recommendation. Per state statute, neither semester counts toward math credit; elective credit only	9-12 9-12
0.5 0.5	2916 2918	Algebra I L, S1** Algebra I Q, S2	Successful completion of Pre-Algebra or Linear Algebra. S1 does not count toward math credit.	9-12 9-12
0.5 0.5 0.5 0.5	2912 2914 T300* T302*	Quadratic Algebra, S1 Quadratic Algebra, S2 Quadratic Algebra, part 1, Tonka Online Select Term: T300S / T300F / T300W Quadratic Algebra, part 2, Tonka Online Select Term: T302S / T302F / T302W	C or better in Algebra of Lines	9-12 9-12 9-12 9-12
0.5 0.5 0.5 0.5	3006 3008 T304* T306*	Geometry, S1 Geometry, S2 Geometry, part 1, Tonka Online Select Term: T304S / T304F / T304W Geometry, part 2, Tonka Online Select Term: T306S / T306F / T306W	Successful completion of Quadratic Algebra or 8th grade Algebra	9-12 9-12 9-12 9-12
0.5 0.5	3012 3014	Geometry Honors, S1 Geometry Honors, S2	B or better in Quadratic Algebra or 8th grade Algebra	9-12 9-12
0.5 0.5 0.5 0.5	3106 3108 T308* T310*	Higher Algebra, S1 Higher Algebra, S2 Higher Algebra, part 1, Tonka Online Select Term: T308S / T308F / T308W Higher Algebra, part 2, Tonka Online Select Term: T310S / T310F / T310W	Successful completion of Quadratic Algebra and Geometry or teacher recommendation.	9-12 9-12 9-12 9-12
0.5 0.5 0.5 0.5	3112 3114 T350* T352*	Higher Algebra Honors, S1 Higher Algebra Honors, S2 Higher Algebra Honors, part 1, Tonka Online Select Term: T350S / T350F / T350W Higher Algebra Honors, part 2, Tonka Online Select Term: T352S / T352F / T352W	B or better in Geometry or teacher recommendation.	9-12
0.5 0.5	3202 3203	Math Studies, S1 Math Studies, S2	Successful completion of FST or counselor recommendation.	11-12
0.5 0.5 0.5 0.5	3206 3208 T334* T336*	Functions, Stats & Trig, S1 Functions, Stats & Trig, S2 Functions, Stats & Trig, part 1, Tonka Online Select Term: T334S / T334F / T334W Functions, Stats & Trig, part 2, Tonka Online Select Term: T336S / T336F / T336W	Successful completion of Higher Algebra	9-12
0.5	T345S	Functions, Stats & Trig (Precalc Prep), summer only, Tonka Online	Successful completion of Higher Algebra or Higher Algebra Honors	9-12
0.5 0.5	3212 3214	Precalculus, S1 Precalculus, S2	A- or better in Higher Algebra or B- or better in Higher Algebra Honors or Functions, Stats & Trig	9-12
0.5 0.5 0.5 0.5	3216 3218 T312* T314*	Precalculus Honors, S1 Precalculus Honors, S2 Precalculus Honors, part 1, Tonka Online Select Term: T312S / T312F / T312W Precalculus Honors, part 2, Tonka Online Select Term: T314S / T314F / T314W	A in Higher Algebra or B+ or better in Higher Algebra Honors	9-12

This logo denotes Tonka Online courses. * For all Tonka Online courses, indicate the term you are selecting by adding an S-summer, F-fall or W-winter term. When registering for two-semester courses, complete part 1 before taking part 2.
**NOTE: Per state statute, Algebra of Lines and the first semester of Algebra I do not count toward math credits; elective credit only.

Mathematics

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	GRADE(S)
0.5	T341S	Functions, Stats & Trig (AP Stats Prep), summer only, Tonka Online	Successful completion of Higher Algebra or Higher Algebra Honors	10-12
0.5 0.5	3220 3222	Statistics, S1 Statistics, S2	Successful completion of Higher Algebra (C or better)	10-12
0.5 0.5 0.5 0.5	AP400 AP402 T354* T356*	AP Statistics, S1 AP Statistics, S2 AP Statistics, part 1, Tonka Online Select Term: T354S / T354F / T354W AP Statistics, part 2, Tonka Online Select Term: T356S / T356F / T356W	Successful completion (B- or better) of Math Studies, Functions, Stats & Trig, Precalculus or teacher recommendation.	10-12
N/A	T316S	AP Calculus Prep summer only, Tonka Online	Successful completion of Precalculus.	9-12
0.5 0.5	3230 3232	Calculus, S1 Calculus, S2	Successful completion of Precalculus.	11-12
0.5 0.5	AP404 AP406	AP Calculus AB, S1 AP Calculus AB, S2	B or better in Precalculus, Precalculus Honors or Calculus	11-12
0.5 0.5	AP408 AP410	AP Calculus BC, S1 AP Calculus BC, S2	C or better in AP Calculus AB 2 or A- or better in Calculus.	11-12
0.5 0.5	2920 T960S	Introduction to Computer Science Introduction to Computer Science, summer only, Tonka Online	Algebra	9-12
0.5 0.5	IB600 IB602	IB Math Studies SL, S1 IB Math Studies SL, S2	Functions, Statistics & Trigonometry or permission from Advanced Learning Coordinator	11-12
0.5 0.5	IB604 IB606	IB Mathematics SL, S1 IB Mathematics SL, S2	Completion of Precalculus (grade B or better) or Precalculus Honors (grade C or better)	11-12
0.5 0.5	IB608 IB610	IB Math HL Year 1, S1 IB Math HL Year 1, S2	Precalculus Honors (grade B or better) or B+ in Precalculus	10-11
0.5 0.5	IB612 IB614	IB Math HL Year 2, S1 IB Math HL Year 2, S2	IB Math HL Year 1	11-12
0.5 0.5 0.5	IB615 IB616 IB618	IB Further Mathematics HL, summer (independent work) IB Further Mathematics HL, S1 IB Further Mathematics HL, S2	IB Math HL Year 2 or AP Calculus AB and AP Statistics. Students must enroll in all three courses.	12
0.5 0.5	3234 3236	Multivariable Calculus, S1 Multivariable Calculus, S2	AP Calculus BC Semester 1 and 2; Passing score of 3, 4 or 5 on the AP Calculus BC exam or IB HL Mathematics Year 2	9-12
0.5	3290	Math Center Tutoring	Must be accepted through an application process	10-12
2.0	V100	VANTAGE: Business Analytics (with AP Statistics)	Successful completion of Math Studies, Functions, Stats & Trig, Precalculus or teacher recommendation.	11-12

Mathematics

ALGEBRA OF LINES

Course #2902, S1**
Course #2903, S2**
Grade(s) offered: 9-12
Credits: Per state statute, neither semester counts toward math credit; elective credit only.
Prerequisites: Teacher recommendation

Course Description:
This course builds on topics covered in Algebra of Lines. Topics include data handling, drawing scatter plots, polynomial expressions, quadratic functions and solving quadratic equations, and exponential functions.

Instructional Methods/Assessments:
Lecture, class discussion, cooperative learning, small groups and individual investigation. Students are expected to perform some calculations without calculators. Assessments include homework (graded daily), quizzes, chapter tests and semester final exams.
Minnesota State Standards:
Portions of I, Mathematical Reasoning, II Number Sense, Computation and Operations, III. Patterns Functions and Algebra.

Recommended Background for Success:
Knowledge of whole numbers and proficiency of place value, factors and multiples; ability to solve problems with percent, ratios, order of operations and integers; understand area and perimeter. Scientific calculators are required.

ALGEBRA I

Course #2916, L S1**
Course #2918, Q S2
Grade(s) offered: 9-12
Credits: Per state statute, S1 does not count toward math credit; elective credit only. S2 counts toward .5 math credit.
Prerequisites: Pre-Algebra or Linear Algebra

Course Description:
This course is designed for students who struggled in 8th grade algebra or students new to the Minnetonka district and have successfully completed pre-algebra the prior year. Topics include data handling, drawing scatter plots, graphing linear equations, solving linear equations and inequalities, solving systems of equations, polynomial expressions, quadratic functions and solving quadratic equations.

Instructional Methods/Assessments:
Lectures, discussions, cooperative learning and individual investigation. Assessments include daily work, tests, quizzes and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, IV Data Analysis, Statistics, and Probability.

Recommended Background for Success:
Knowledge of whole numbers and proficiency of place value, factors and multiples; ability to solve problems with percent, ratios, order of operations and integers; understand area and perimeter. Students should have a graphing calculator.

**NOTE: Per state statute, Algebra of Lines and the first semester of Algebra I do not count toward math credits; elective credit only.

QUADRATIC ALGEBRA

Course #2912, S1
Course #2914, S2
Course #T300*, part 1, Tonka Online
Course #T302*, part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: C or better in Algebra of Lines

Course Description:
This course builds on topics covered in Algebra of Lines, or middle school Pre-algebra. Topics include data handling, drawing scatter plots, polynomial expressions, quadratic functions and solving quadratic equations, and exponential functions.

Instructional Methods/Assessments:
Lectures, discussions, cooperative learning and individual investigation. Assessments include daily work, tests, quizzes and semester final exam.
Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, IV Data Analysis, Statistics, and Probability.

Recommended Background for Success:
Completion of Algebra 1; ability to solve one and two-step linear equations; understanding and use of number operations and order of operations with integers; understanding and use of fractions, percent, ratios and proportions; able to graph linear equations. Students should have a graphing calculator.

GEOMETRY

Course #3006, S1
Course #3008, S2
Course #T304*, part 1, Tonka Online
Course #T306*, part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: #3006 Successful completion of Quadratic Algebra or 8th grade Algebra

Course Description:
This two-semester course is an alternative to Geometry 3012. Topics include all of the graduated required substrands of the Minnesota Comprehensive Assessment (MCA) related to geometry. This course is for students who have struggled in math in previous courses and would like intensive preparation for the state assessment.

Instructional Methods/Assessments:
Lectures, discussions in groups and as a class, individual investigation and discovery, visual instruction with computer, graphing calculator, and the white board are all employed to teach course material. Assessments included daily work, quizzes, tests, group work and semester final exams.
Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, V. Spatial, Sense, Geometry and Measurement.

Recommended Background for Success:
Students should have the ability to solve linear equations and quadratic equations, solve systems of equations, graph linear and quadratic equations, visualize objects and understand area and perimeter, understand and work with ratio and proportions.

GEOMETRY HONORS

Course #3012, S1
Course #3014, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: B or better in Quadratic Algebra or 8th grade Algebra

Course Description:
This course will help the student better understand the nature of a mathematical system. Intuitive, inductive, and deductive reasoning are used to develop the geometry of planes and space. Students will write formal proofs as they develop these types of reasoning. Topics studied include congruent triangles, angle relationships, parallel lines and planes, similarity, circles, area and volume.

Mathematics

Instructional Methods/Assessments:
Lectures, discussion, cooperative learning and individual investigation. Assessments include daily work, quizzes, tests and year-end final exam.
Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, V. Spatial Sense, Geometry and Measurement.

Recommended Background for Success:
Each student is expected to have a graphing calculator and a strong concept of algebra.

HIGHER ALGEBRA

Course #3106, S1
Course #3108, S2
Course #T308*, part 1, Tonka Online
Course #T310*, part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Quadratic Algebra & Geometry or teacher recommendation

Course Description:
This two-semester course is an alternative to Higher Algebra Honors (3112, 3114). The topics covered in this class are: Algebra/ ACT Review, probability, transformation, quadratics, polynomials, data and statistics, linear programming, exponentials, recursion and function notation. The distinction between this course and Higher Algebra Honors is the pacing at which the above content is covered; which does not allow for the following topics: circles, matrices, and conic sections. Taking this course does not limit a student's post Higher Algebra math options.

Instructional Methods/Assessments:
Lectures, discussion, group work and individual investigation. Assessments include daily work, tests, quizzes and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, IV Data Analysis, Statistics, and Probability.

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems, and multiply and factor polynomials. Students will need a graphing calculator.

HIGHER ALGEBRA HONORS

Course #3112, S1
Course #3114, S2
Course #T350* part 1, Tonka Online
Course #T352* part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: B or better in Geometry or teacher recommendation

Course Description:
The course reviews and extends basic concepts learned in Algebra and Geometry. Semester 1 topics include: Probability, Transformations of functions, Quadratic functions and Higher Degree Polynomials. Semester 2 topics include: Function Notation, Recursion, Exponential Equations, Logarithms, and Data and Statistics.

Instructional Methods/Assessments:
Lectures, discussion, cooperative learning and individual investigation. Assessments include daily work, quizzes, tests and year-end final exam.
Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, Operations, III. Patterns, Functions, Algebra, IV Data Analysis, Statistics, Probability.

Recommended Background for Success:
Students must be able to solve multi-step equations, have strong algebraic manipulation skills, be able to graph linear and quadratic equations and inequalities and connect algebraic and geometric concepts to solve problems. Students will need a graphing calculator.

MATH STUDIES

Course #3202, S1
Course #3203, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Successful completion of FST or school counselor recommendation

Course Description:
Math Studies is designed to build confidence and encourage an appreciation of mathematics. Students are introduced to additional topics in geometry and higher algebra, followed by precalculus, calculus, statistics, set theory, logic, and probability. The mathematical topics apply to contexts related, as far as possible, to other curriculum subjects; to common general world occurrences; and to topics related to home, work, and leisure situations. When students complete this course, they are ready for business calculus, first semester calculus, or statistics as they begin college. Prerequisites for this course are a C or better in higher algebra or FST.

Instructional Methods/Assessments:
Lectures, cooperative learning, small group work, problem solving exercises and independent study will be used to teach this course. Material draws from the fields of business, economics, social and behavioral sciences, life sciences, physical sciences and others of general interest. Students will need a graphing calculator.

FUNCTIONS, STATISTICS & TRIGONOMETRY

Course #3206, S1
Course #3208, S2
Course #T334*, part 1, Tonka Online
Course #T336*, part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Higher Algebra

Course Description:
This course presents topics from these three areas in a unified way to help students prepare for Precalculus and/or AP Statistics. Included are the studies of linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions. This course enables the students to display, describe, transform and interpret numerical information represented as data, graphs or equations. Using technology, students will visualize functions, explore relations between equations and their graphs, and generate and analyze data.

Instructional Methods/Assessments:
Lectures, discussion, cooperative learning and individual investigation. Assessments include daily work, quizzes, projects, tests and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, Operations, III. Patterns, Functions, Algebra, IV Data Analysis, Statistics, Probability, V. Spatial Sense, Geometry and Measurement.

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems and multiply and factor polynomials. Students will need a graphing calculator.

Mathematics

TONKA ONLINE FUNCTIONS, STATISTICS & TRIGONOMETRY (PRECALCULUS PREP)

Course #T345S, summer only, Tonka Online

Grade(s) offered: 9-12
Credits: .5
Prerequisites: Successful completion of Higher Algebra or Higher Algebra Honors

Course Description:
This one semester summer course allows Higher Algebra students that did not meet the prerequisites for Precalculus to prep for and with successful completion take Precalculus in the fall of the following year. Included are the studies of linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions. Using technology, students will visualize functions, explore relations between equations and their graphs. See page 109 for more details.

PRECALCULUS

Course #3212, S1
Course #3214, S2

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: A- or better in Higher Algebra or B- or better in Higher Algebra Honors or FST

Course Description:
This course is for students who have a strong interest in math. This course can be used as an introductory course to IB Mathematics SL or AP Calculus AB. Topics covered in first semester will include solutions and their graphs, equations and inequalities, absolute value, polynomial, and rational functions. Second semester Precalculus students will cover trigonometric functions, exponential, and logarithmic functions.

Instructional Methods/Assessments:
Lectures, discussion, cooperative learning and individual investigation. Assessments include daily work, quizzes, tests and semester final exam.

Recommended Background for Success:
Ability to simplify rational expressions, solve rational equations, and solve systems of linear and non-linear equations; represent real world problem situations using variables and/or geometric models and solve the resulting equations and/or inequalities; and use various theorems and methods to solve polynomial equations. Exposure to logarithms, conic sections, complex numbers, and functions. Students will need a graphing calculator. Solve linear and quadratic equations algebraically. Solve linear inequalities. Know and apply exponent rules to simplifying powers. Write equations of a line in both slope-intercept form and point-slope form. Understanding of basic right triangle trigonometry.

PRECALCULUS HONORS

Course #3216, S1
Course #3218, S2
Course #T312*, part 1, Tonka Online
Course #T314*, part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: A in Higher Algebra or B+ or better in Higher Algebra Honors

Course Description:
This course is for students who have a strong interest in advanced math. In this course, students study precalculus, statistics, probability, vectors, as well as series sequences. This course can be used as an introductory course to IB Mathematics SL, IB Mathematics HL or AP Calculus AB.

Instructional Methods/Assessments:
Instructional methods include lectures, group discussion and individual investigation. Assessments include tests, quizzes, homework, projects and semester final exam.

Recommended Background for Success:
It is expected that the students have a graphing calculator (TI-83 or TI-84 plus are recommended). Students should be able to simplify rational expressions, solve rational equations and solve systems of linear and nonlinear equations; represent real world problem situations using variables and/or geometric models and solve polynomial equations. Students should have had exposure to logarithms and algebraic functions.

TONKA ONLINE FUNCTIONS, STATISTICS & TRIGONOMETRY (AP STATISTICS PREP)

Course #T341S, summer only, Tonka Online

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Successful completion of Higher Algebra or Higher Algebra Honors

Course Description:
This one semester summer course enables students to transition from Higher Algebra to AP Statistics in the fall of the following year. This course enables the students to display, describe, transform, and interpret numerical information represented as data, graphs or equations. Using technology, students generate and analyze data.

STATISTICS

Course #3220, S1
Course #3222, S2

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Higher Algebra (C or better)

Course Description:
This course focuses on descriptive statistics that guide real-world, data-informed decisions. Topics include sample design, summary statistics, normal distributions, linear regression, and probability. Additionally, students will be introduced to statistical inference and role it plays in estimating values that describe a population. Students will also receive instruction on Microsoft Excel and will be asked to utilize it in projects and investigations. This course could stand alone as an introduction to statistics or could act as a prep course for AP statistics.

Instructional Methods/Assessments:
The course will center on project-based learning with some supplementary direct instruction. Investigations and group discussions will be included as well. Assessments include homework quizzes, Schoology quizzes, project presentations, and some concept summative assessments.

Recommended Background for Success:
Willingness to explore open-ended questions. Ability to work through word problems and to write and present about math at a basic level. Basic arithmetic skills.

AP STATISTICS

Course #AP400, S1
Course #AP402, S2
Course #T354*, part 1, Tonka Online
Course #T356*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

This course can also be taken as part of VANTAGE #V100.

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Successful completion (B- or better) of Math Studies, Functions, Stats & Trig, Precalculus or teacher recommendation

Course Description:
This course focuses on descriptive statistics that guide real-world, data-informed decisions. Topics include sample design, summary statistics, normal distributions, linear regression, statistical inference, and probability. The inference procedures include means, proportions, Chi-square, and inference for regression. Overall, this course focuses on statistical questions that exist in the real-world and includes interpreting

the meaning of results in writing. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include direct instruction, cooperative work, investigations, and group discussion. Assessments include homework quizzes,, Schoology quizzes, inference projects, unit tests, and cumulative tests.

Recommended Background for Success:
Arithmetic skills through higher algebra. Ability to make meaning of word problems and write about results. A curiosity about statistics that promotes a willingness to ask questions.

TONKA ONLINE AP CALCULUS PREP

Course #T316S, summer only, Tonka Online
Grade(s) offered: 9-12
Credits: N/A
Prerequisites: Completion of Precalculus

Course Description:
AP Calculus Prep is an online course for the student that wants a solid background in calculus in preparation for AP Calculus AB, or is bypassing AP Calculus AB and going directly in AP Calculus BC. Students completing this online course will be prepared for the rigor of AP Calculus AB and/or AP Calculus BC. This course will cover the skills required for first semester college calculus.

This course is open to students that have the desire to accelerate their mathematical learning, or wish to enhance their understanding of calculus, or would like a refresher course before taking on a calculus course—at the high school or college level.

Instructional Methods/Assessments:
The course will be taught online, using lectures, Schoology quizzes, summative assessments after each chapter and required online homework. There will also be a library of practice problems with solutions for students to practice.

Recommended Background for Success:
Students taking this course will have completed Precalculus or higher. The successful student will be self-motivated, curious and organized. The course will cover a year's worth of skills necessary for success in AP Calculus AB and BC; students must commit to the daily work and practice required for success.

CALCULUS

Course #3230, S1
Course #3232 , S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Completion of Precalculus

Course Description:
This introductory course focuses on the major topics of calculus and their applications. The course begins by reviewing Higher Algebra and Precalculus topics from a point of view which leads to the development of the derivative as a rate of change. In Calculus 1, limits and continuity are introduced intuitively and numerically, but without rigorous proof. The students will study the mechanical methods of calculating derivatives, as well as applications of derivative functions and their graphs. In Calculus 2, definite integrals are introduced and used to calculate area and volume. Students will prepare for a variety of majors, practical applications, and problem solving techniques. Topics are presented verbally, geometrically, numerically, and analytically. Emphasis is placed on communication of concepts as well as correct mechanics.

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, cooperative learning and individual investigation. Assessments include daily work, quizzes, tests and semester end final exam.

Recommended Background for Success:
Students should be familiar with coordinates and graphs in the plane; slope and equations for lines; relations, functions and their graphs; geometric transformations (shifts, reflections, shrinks and stretches); solving equations and inequalities algebraically and graphically; and trigonometric functions (triangle and circular). Students will need a graphing calculator.

AP CALCULUS AB

Course #AP404, S1
Course #AP406, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: B or better in Precalculus, Precalculus Honors or Calculus

Course Description:
This course focuses on differential and integral calculus and it's applications. Limit theory is introduced in order to develop the derivative. A thorough study will be made of the definite and indefinite integral, functions and their derivatives, and applications of derivatives and integrals. Emphasis will be placed on preparing for the Advanced Placement Exam. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussion, cooperative learning and individual investigations. Assessments include daily work, quizzes, tests, the semester final exam and the AP exam in the spring.

Recommended Background for Success:
This course is a continuation of AP Calculus AB 1 and 2. Students will review limit theory, differentiation, applications of the derivative, integration, applications of integrals, and the numerical approximations of the definite integral. BC materials covered will consist of parametric, polar, and vector functions, their derivatives, slope fields, Euler's method, and convergence of improper integrals and series, and Taylor polynomials. Emphasis will be placed on preparing for the Advanced Placement exam. It is expected that students electing this course will take the AP exam, for which there is a fee. A graphing calculator is required.

AP CALCULUS BC

Course #AP408, S1
Course #AP410, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: C or better in AP Calculus AB or A- or better in Calculus

Course Description:
This course will review topics in AP Calculus AB 1 and 2 such as limit theory, differentiation, applications of the derivative, integration, applications of integrals, and numerical approximations of definite integral. The course covers parametric, polar, and vector functions, their derivatives, slopes fields, Euler's method, and convergence of improper integrals and series. Emphasis will be placed on preparing for the Advanced Placement Exam. It is expected that students electing this course will take the AP Exam, for which there is a fee. A graphing calculator is required.

Instructional Methods/Assessments:
Lectures, cooperative learning, class presentation, discussion, group and individual investigations. Assessments include tests, quizzes, daily work and projects.

Recommended Background for Success:
Limits and continuity, differentiation and applications of differentiation, integration and applications of integration, differential equations, and numerical approximations.

Mathematics

IB MATH STUDIES SL

Course #IB600, S1
Course #IB602, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
.5 (per semester)
Prerequisites: Successful completion of FST or permission from the Advanced Learning Coordinator

Course Description:
IB Math Studies SL is designed to build confidence and encourage an appreciation of mathematics. Students are introduced to additional topics in geometry and higher algebra, followed by precalculus, calculus, statistics, and probability. The mathematical topics apply to contexts related, as far as possible, to other curriculum subjects; to common general world occurrences; and to topics related to home, work, and leisure situations. There is also an extensive project required of students in the studies curriculum. When students complete this course, they are ready for business calculus or first semester calculus as they begin college. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB MATHEMATICS SL

Course #IB604, S1
Course #IB606, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Completion of Precalculus (grade B or better) or Precalculus Honors (grade C or better)

Course Description:
Mathematics SL is a one-year course that builds upon precalculus topics as well as introduce calculus (1 semester long) and statistics (1 quarter long) topics. The major topics covered in the course include precalculus (trigonometry), vectors, series and sequences, statistics and probability and calculus. A written math project is also required of students. The course culminates in two IB exams in the spring: one calculator and one non-calculator. At the conclusion of this course, it is expected that students will take the IB Exams. When students complete this course, they are ready for Calculus, AP Calculus AB, AP Statistics, or first/second semester calculus as they begin college. The prerequisite for this course is Precalculus (B- or better) or Precalculus Honors.

IB MATH HL

Course #IB608, Year 1, S1
Course #IB610, Year 1, S2
Course #IB612, Year 2, S1
Course #IB614, Year 2, S2

Grade(s) offered: 10-12
Credits: 2.0 (two-year course)
Prerequisites: Precalculus Honors or a B+ in Precalculus along with a discussion with IB Math HL instructors regarding course concepts needed for HL.

Course Description:
Math HL is a two-year class designed for students with sound preparation in mathematical analysis and technical skills. In this course, students will study advanced calculus and statistics topics where the primary focus will be preparation for the IB higher level math exam. A written math project is also required of students. Students in this course have post-high school plans which include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering, and technology. Other students take this course because they have a strong interest in math and enjoy taking up its challenges and tackling its problems. At the conclusion of year one of this course, many students take the AP exams in Calculus AB and Statistics. At the conclusion of year two of this course, many students take the AP exam in Calculus BC. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB FURTHER MATHEMATICS HL

Course #IB615, summer (independent work)
Course #IB616, S1
Course #IB618, S2

Grade offered: 12
Credits: 1.5 (year-long course plus independent summer course, enroll in all three)
Prerequisites: IB Math HL Year 2 or AP Calculus AB and AP Stats

Course Description:
This course is for students who have attained a high degree of competence in a range of analytical and technical skills and display considerable interest in mathematics. The course is designed to expose students to a variety of topics from different branches of mathematics, while still allowing them to learn about deeper aspects of mathematics. The exams address five major topics—discrete mathematics (including number theory and graph theory); sets, relations, and groups; geometry; series and differential equations; and statistics and probability. Additionally, this course includes a substantial unit on calculus. Creative problem solving and logical reasoning, including proofs, will play an integral role in the course. Because of the large number of topics covered in this course, students will need to complete a semester of math coursework during the summer preceding the start of school in the autumn. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

MULTIVARIABLE CALCULUS

Course #3234, S1
Course #3236, S2

Grades Offered: 9-12
Credits: 1.0 (year-long course)
Students who successfully complete the course with a C- or better and follow the proper steps may be eligible to earn dual credit through a local community college.
Prerequisites: AP Calculus BC Semester 1 and 2; Passing score of 3, 4 or 5 on the AP BC exam or IB HL Mathematics Year 2

Course Description:
This is a college-level course aligned with content found in a Calculus III Multivariable course. Students will study functions of several variables, three-dimensional analytic geometry, vectors, partial derivatives, optimization, multiple integrals, curves and surfaces, vector fields, divergence, curl, line and surface integrals, Green's Theorem, Stokes' Theorem, and the Divergence Theorem.

Instructional Methods/Assessments:
Instruction delivery will be by lecture, group work and discovery. Assessments will include in-class tests—partner and individual; quizzes—partner and individual, take-home tests, homework, and independent and group projects.

Recommended Background for Success:
Students are expected to have mastered and retained the material covered in AP Calculus AB and BC, or IB HL Year 2: functions of one variable and their properties and graphs, two-dimensional analytic geometry, the definition, development and applications of differentiation and integration. In addition, high-level problem solving will be assumed as well as mastery of algebraic manipulations, graphical visualization, and numerical computations. Students should have excellent work habits and be dedicated to a complete understanding of concepts and their application.
Note: Students will need a graphing calculator. Class demonstrations are done with a TI-84 Silver.

Mathematics

MATH CENTER TUTORING

Course #3290

Grade(s) offered: 10-12
Credits: .5 (per semester), 1.0 (year-long course)
Prerequisites: Must be accepted through an application process

Course Description:
Students will spend one class period of their day working in the MHS Math Center as a peer tutor. Students will be required to attend one, zero-hour class per week to discuss tutoring strategies, current MHS math material, and analyze and reflect on weekly articles related to peer tutoring and mathematics. Students will be required to keep a weekly journal of their peer tutoring experiences as well as take lead on the Twitter account, promotions, and sign ups/requests throughout the course.

Instructional Methods/Assessments:
The majority of the course will be discussion and project based. There will be a culminating paper highlighting a students' semester-long experience as a Math Center tutor.

Recommended Background for Success:
Students should have a strong background in math as well as good interpersonal skills in order to be successful tutoring peers.

VANTAGE: BUSINESS ANALYTICS

Course #V100

Grade(s) offered: 11-12
Credits: 2.0
Earning credit for AP Statistics (math credit) and IB Business Management SL/HL (elective credit)
Prerequisites: Interest in business and/or statistics; application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 116

Music

Students interested in a musical experience at Minnetonka High School are encouraged to audition for band, choir, or orchestra. These courses function as a curricular experience with opportunities for extra-curricular activities. All music classes are elective. Completion of two consecutive semesters of music fulfill the 1.0 Arts credit requirement.

Members of the MHS bands are eligible for a variety of co-curricular activities including marching band, pep band, jazz ensembles, and solo and ensemble participation. Members of MHS choirs are also eligible for a variety of co-curricular ensembles including Chamber Singers, Varsity Madrigal Singers, Donna Voce, quartets, etc. Members of MHS orchestras can be involved in Philharmonic Orchestra, chamber ensembles, pit orchestra and other solo and ensemble opportunities.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
BAND				
.5 .5	4702 4703	Varsity Band, S1 Varsity Band, S2	Satisfactory completion of 8th grade band or consent of instructor	9
.5 .5	4708 4710	Concert Band, S1 Concert Band, S2	Successful completion of Varsity Band or consent of the instructor	10-12
.5 .5	4712 4713	Symphonic Band, S1 Symphonic Band, S2	Audition with instructor	10-12
.5 .5	4714 4715	Wind Ensemble, S1 Wind Ensemble, S2	Audition with instructor	10-12
ORCHESTRA				
.5 .5	4716 4717	Symphony Orchestra, S1 Symphony Orchestra, S2	Audition with instructor	10-12
.5 .5	4718 4719	Concert Orchestra, S1 Concert Orchestra, S2	Audition with instructor	10-12
.5 .5	4720 4721	Varsity Orchestra, S1 Varsity Orchestra, S2	Completion of 8th grade orchestra or consent of instructor	9
.5 .5	4722 4723	String Orchestra, S1 String Orchestra, S2	Audition with instructor	9-10
.5 .5	4724 4725	Chamber Orchestra, S1 Chamber Orchestra, S2	Audition with instructor	10-11
CHOIR				
.5 .5	4750 4751	Choristers, S1 Choristers, S2	Voice check with instructor.	9
.5 .5	4753 4754	Varsity Choir Women, S1 Varsity Choir Women, S2	Voice check with instructor.	9-12
.5 .5	4756 4757	Varsity Choir Men, S1 Varsity Choir Men, S2	Voice check with instructor.	9-12
.5 .5	4762 4763	Tonka Treble Choir, S1 Tonka Treble Choir, S2	Audition	10-12
.5 .5	4766 4767	Concert Choir, S1 Concert Choir, S2	Audition	10-12
NON-PERFORMANCE MUSIC COURSES				
.5	4780	Music Technology	Interest in music composition	9-12
.5	4770	Music Theory 1	Interest in music	9-12
.5	AP700	AP Music Theory	Pre-test or grade B or higher in Music Theory 1 or pretest/application prior to registration	10-12
.5 .5	IB712 IB714	IB Music SL, S1 IB Music SL, S2	Concurrent registration in Concert Choir, Treble Choir, Wind Ensemble, Concert Orchestra, Chamber Orchestra or Symphony Orchestra. Theory pre-test or AP Music Theory.	11-12
.5	T600*	American Popular Music, Tonka Online Select Term: T600S / T600F / T600W	An interest in music	9-12

This logo denotes Tonka Online courses. * For all Tonka Online courses, indicate the term you are selecting by adding an S-summer, F-fall or W-winter term. When registering for two-semester courses, complete part 1 before taking part 2.

Music

VARSITY BAND

Course #4702, S1
Course #4703, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: Satisfactory completion of 8th grade band or consent of instructor

Course Description:
The band curriculum is a full year curriculum. A wide variety of music literatures will be studied and performed in a major concert each term. The fundamentals of basic musicianship will be emphasized in each class. All band members are encouraged to be involved in some form of lesson experience to develop personal music understanding, appreciation, playing techniques, and musicianship to augment those learned in the curricular band offerings.

Instructional Methods/Assessments:
Instructional methods include cooperative learning, aural training, music dictation, and standard ensemble rehearsal techniques. Assessments include rhythm dictation tests, rehearsal skills, playing tests for chair placement, term tests, evaluative writing and quarterly exams, and concert participation.

Recommended Background for Success:
Students should have instrumental skills at the 8th grade level and knowledge of appropriate playing technique of their individual instrument.

CONCERT BAND

Course #4708, S1
Course #4710, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Varsity Band or consent of instructor

Course Description:
Students who accept a position in Concert Band commit to a full year of participation. A wide variety of music literature will be studied and performed in a major concert each term. The fundamentals of basic musicianship will be emphasized in each class. All band members are encouraged to be involved in some form of lesson experience to develop personal music understanding, appreciation, playing techniques, and musicianship to augment those learned in the curricular band offerings. Opportunities are available for solo and ensemble experiences throughout the year.

Instructional Methods/Assessments:
Instructional methods include cooperative learning, aural training, music dictation, and standard ensemble rehearsal techniques. Assessments include rhythm dictation tests, rehearsal skills, playing tests for chair placement, term tests, evaluative writing and quarterly exams, and concert participation.

Recommended Background for Success:
Students need instrumental skills at the 9th grade level and knowledge of appropriate playing technique of their individual instrument. Students must have the ability to demonstrate basic rhythm and scale skills, with the ability to play independently.

SYMPHONIC BAND

Course #4712, S1
Course #4713, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Audition

Course Description:
Students who accept a position in Symphonic Band commit to a full year of participation. A variety of music will be studied and performed in a concert each term. The fundamentals of advanced musicianship will be emphasized in each class. Band members are required to be involved in some form of lesson experience to help develop personal playing techniques and musicianship to augment those learned in the curricular band offerings. The Symphonic Band will represent MHS at large group contests. Opportunities for solo and ensemble experiences. Study-travel opportunities may be an optional component of this course.

Instructional Methods/Assessments:
Instructional methods include cooperative learning, aural training, music dictation, and standard ensemble rehearsal techniques. Assessments include rhythm dictation tests, rehearsal skills, playing tests for chair placement, term tests, evaluative writing, private lessons, quarterly exams, and concert participation.

Recommended Background for Success:
Instrumental skills at an advanced level and knowledge of appropriate playing technique of their individual instrument. Demonstrate rhythm and scale skills with the ability to play independently and show attention to musical detail and phrase.

WIND ENSEMBLE

Course #4714, S1
Course #4715, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered 10-12
Credits: .5 (per semester)
Prerequisites: Audition

Course Description:
Students who accept a position in Wind Ensemble commit to a full year of participation. A variety of music will be studied and performed in a concert each term. The precepts of advanced musicianship will be emphasized in each class. Band members are required to be involved in some form of lesson experience to help develop personal playing techniques and musicianship to augment those learned in the curricular band offerings. The Wind Ensemble will represent MHS at large group contests each year. Opportunities are available for solo and ensemble experiences. Study-travel opportunities will also be an optional part of the course.

Instructional Methods/Assessments:
Instructional methods include cooperative learning, aural training, music dictation, and standard ensemble rehearsal techniques. Assessments include rhythm dictation tests, rehearsal skills, playing tests for chair placement, term tests, evaluative writing, private lessons, quarterly exams, and concert participation.

Recommended Background for Success:
Students need instrumental skills at an advanced level, with knowledge of appropriate playing technique of their individual instrument. Also, students should have the ability to demonstrate rhythm and scale skills and play independently with attention to musical detail and phrase.

Music

SYMPHONY ORCHESTRA

Course #4716, S1
Course #4717, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Audition

Course Description:
Students who accept a position in Symphony Orchestra commit to a full year of participation. They will work on more advanced repertoire and continue to improve higher-level musical skills including, but not limited to, ear training, music theory, solo/small ensemble performances, and musical interpretation. The fundamentals of advanced musicianship will be emphasized in each class. A variety of music will be studied and performed in a concert each term. Orchestra members are encouraged to be involved in some form of private lesson experience to help develop personal playing techniques and musicianship to augment those learned in the curricular orchestra offerings. The Symphony Orchestra will represent MHS at large group contests each year. Opportunities are also available for solo and ensemble experiences. Students will be assessed through daily performance, playing, tests, and other coursework as assigned by the instructor.

Instructional Methods/Assessments:
Strong technique will be taught through scales and exercises to be used in selected literature appropriate for the level of the group. Assessments include written and playing tests and concert participation.

Recommended Background for Success:
Students need instrumental skills at an advanced level, with knowledge of appropriate playing technique of their individual instrument. Also, students should have the ability to demonstrate rhythm and scale skills and play independently with attention to musical detail and phrase.

CONCERT ORCHESTRA

Course #4718, S1
Course #4719, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Audition

Course Description:
Students who accept a position in Concert Orchestra commit to a full year of participation. Throughout the year, students will study a variety of repertoire covering several different musical styles. The fundamentals of intermediate/developing musicianship will be emphasized in each class. Additionally, students will refine previously acquired skills such as position shifting, vibrato, note-reading, and musical interpretation among others. The Concert Orchestra will represent MHS at large group contests each year. Opportunities are also available for solo and ensemble experiences.

Instructional Methods/Assessments:
Strong technique will be taught through scales and exercises to be used in selected literature appropriate for the level of the group. Assessments include written and playing tests and concert participation.

Recommended Background for Success:
Students need instrumental skills at the 9th grade level and knowledge of appropriate playing technique of their individual instrument. Students must have the ability to demonstrate basic rhythm and scale skills, with the ability to play independently.

VARSITY ORCHESTRA

Course #4720, S1
Course #4721, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisite: Satisfactory completion of 8th grade orchestra or consent of instructor

Course Description:
Students who accept a position in Varsity Orchestra commit to a full year of participation. Throughout the year, students will study a variety of repertoire covering several different musical styles. The fundamentals of basic musicianship will be emphasized in each class. Additionally, students will continue to improve previously acquired skills such as position shifting, vibrato, note-reading and musical interpretation among others. The Varsity Orchestra will represent MHS at large group contests each year. Opportunities are also available for solo and ensemble experiences. Students will be assessed through daily performance, playing tests, and other coursework as assigned by the instructor.

Instructional Methods/Assessments:
Strong technique will be taught through scales and exercises to be used in selected literature appropriate for the level of the group. Assessments include written and playing tests and concert participation.

Recommended Background for Success:
Students should have instrumental skills at the 8th grade level and knowledge of appropriate playing technique of their individual instrument.

STRING ORCHESTRA

Course #4722, S1
Course #4723, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 9-10
Credits: .5 (per semester)
Prerequisite: Audition

Course Description:
Students who accept a position in String Orchestra commit to a full year of participation. Throughout the year, students will study a variety of repertoire covering several different musical styles. The fundamentals of intermediate musicianship will be emphasized in each class. Additionally, students will continue to improve previously acquired skills such as position shifting, vibrato, note-reading and musical interpretation among others. Opportunities are also available for solo and ensemble experiences. Students will be assessed through daily performance, playing tests, and other coursework as assigned by the instructor. Orchestra members are required to be involved in some form of private lesson experience to help develop personal playing techniques and musicianship, and to augment those learned in the curricular orchestra offerings.

Instructional Methods/Assessments:
Strong technique will be taught through scales and exercises to be used in selected literature appropriate for the level of the group. Assessments include written and playing tests and concert participation.

Recommended Background for Success:
Students should have instrumental skills at the 9th grade level and knowledge of appropriate playing technique of their individual instrument. Private lessons are required.

CHAMBER ORCHESTRA

Course #4724, S1
Course #4725, S2

Completion of both courses fulfills the Arts required credit

Grade(s) offered: 10-11
Credits: .5 (per semester)
Prerequisite: Audition

Course Description:
This course is for students in 10th and 11th grade who are looking for an accelerated music experience, in preparation for the top ensemble – Symphony Orchestra. Students who previously took String Orchestra will be prepared for this course. Students who accept a position in Chamber Orchestra commit to a full year of participation. Audition not required for those students who passed String Orchestra. Other students may audition for acceptance.
Throughout the year, students will study a variety of repertoire covering several different musical styles. The fundamentals of intermediate musicianship will be emphasized in each class.

Additionally, students will continue to improve previously acquired skills such as position shifting, vibrato, note-reading and musical interpretation among others. Opportunities are also available for solo and ensemble experiences. Students will be assessed through daily performance, playing tests, and other coursework as assigned by the instructor. Orchestra members are required to be involved in some form of private lesson experience to help develop personal playing techniques and musicianship, and to augment those learned in the curricular orchestra offerings.

Instructional Methods/Assessments:
Strong technique will be taught through scales and exercises to be used in selected literature appropriate for the level of the group. Assessments include written and playing tests and concert participation.

Recommended Background for Success:
Students should have instrumental skills at an advanced grade level, and knowledge of appropriate playing technique of their individual instrument. Private lessons are highly encouraged.

CHORISTERS

Course #4750, S1
Course #4751, S2
Completion of both courses fulfills the Arts required credit
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: Voice check with instructor

Course Description:
Students who accept a place in Choristers commit to a full year of participation. Ninth grade women registered for vocal music are members of the Choristers. Choristers meet daily for rehearsals and perform concerts in quarters two, three and four. Study is focused on further development of resonant tone, vocal technique and sight-singing skills. Students study a variety of musical styles from several historical periods and diverse cultures and will sing languages other than English. Music is chosen as appropriate to match the developmental level of each performing group.

Instructional Methods/Assessments:
Vocal technique will be taught through vocal exercises that reinforce breath management skills and vowel formation that is optimal for resonant tone quality. Performance pieces are learned through sectional and full group rehearsal. Active listening will be practiced daily. Assessments include rehearsal skills, sight-singing and tonal development tests, written critiques of vocal performances, written tests related to musical notation and vocabulary, and concert participation.

Recommended Background for Success:
Students should have ability to match pitch, some sight-reading skills, and an interest in developing beauty and strength of tone and higher level sight-reading skills.

VARSITY CHOIR WOMEN

Course #4753, S1
Course #4754, S2
Completion of both courses fulfills the Arts required credit
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Voice check with instructor

Course Description:
Students who accept a position in Varsity Women's Choir (grades 9-12) commit to a full year of participation. The Varsity Women's Choir meets daily for rehearsals and performs five times per year. During quarter 3, the Varsity Choir performs at the Lake Conference Varsity Choir Festival and at the Region VI-AA Large Group Contest. Students will study a variety of musical styles from various historical periods, and diverse cultures and will sing in a variety of languages. Music is chosen as appropriate to match the developmental level of each performing group.

Instructional Methods/Assessments:
Vocal pedagogy will be taught through vocal exercises, breath management techniques, and vowel study. Performance pieces are learned through sectional and full group rehearsal. Active listening will be practiced daily. Sight-reading and ear training will be presented from a variety of sources. Assessments include rehearsal skills, concert participation, written critiques of vocal performances, singing, and written tests.

Recommended Background for Success:
Students must be able to match pitch, as well as singing in tune, have sight-reading skills, vocal skills (technique), beauty and strength of tone.

VARSITY CHOIR MEN

Course #4756, S1
Course #4757, S2
Completion of both courses fulfills the Arts required credit
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Voice check with instructor

Course Description:
Students who accept a position in Varsity Men's Choir (grades 9 – 12) commit to a full year of participation. Ninth grade men registered for vocal music are members of the Varsity Men's Choir. The Varsity Men's Choir meets daily and performs five times per year. During quarter three, the Varsity Choir performs at the Lake Conference Varsity Choir Festival and at the Region VI-AA Large Group Contest. Additional performances include singing at community and school functions. The Varsity Men's Choir combines with the Varsity Women's Choir for some concerts, therefore performing SATB repertoire. Music is chosen to train the male voice during formative years and is also chosen to match the skill level of the singers.

Instructional Methods/Assessments:
Vocal pedagogy will be taught through vocal exercises, breath management techniques, and vowel study. Performance pieces are learned through sectional and full group rehearsal. Active listening will be practiced daily. Sight-reading and ear training will be presented from a variety of sources. Assessments include rehearsal skills, concert participation, quarter critiques of vocal performances, singing and written tests.

Recommended Background for Success:
Students need prior knowledge of vocal skills, beauty and strength of tone and sight-reading skills.

TONKA TREBLE CHOIR

Course #4762, S1
Course #4763, S2
Completion of both courses fulfills the Arts required credit
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Audition

Course Description:
Students who accept a position in Tonka Treble Choir commit to a full year of participation. This group is open to women in grades 10-12 who are advanced in vocal skill and musicianship. Choirs meet daily for rehearsals and perform concerts at least once each quarter. During quarter three, the Treble Choir performs at the Lake Conference Treble Choir Festival and at the Region VI-AA Large Group Contest. Students will study a variety of musical styles from historical periods, diverse cultures and will sing in a variety of languages. Music is chosen appropriately to match the developmental level of this unique and advanced women's choir.

Instructional Methods/Assessments:
Students will learn vocal pedagogy through vocal exercises, breath management techniques and vowel study. Performance pieces are learned through sectional and full group rehearsal. Active listening will be practiced daily. Sight-reading and ear training will be presented from a variety of sources. Assessments include rehearsal skills, concert participation, written critiques of vocal performances, singing, and written tests.

Recommended Background for Success:
Students should demonstrate advanced rehearsal habits, use excellent vocal skills, beauty and strength of tone, sight reading skills, and singing in tune.

Music

CONCERT CHOIR

Course #4766, S1
Course #4767, S2
Completion of both courses fulfills the Arts required credit
Grade(s) offered 10-12
Credits: .5 (per semester)
Prerequisites: Audition

Course Description:
Students who accept a position in Concert Choir commit to a full year of participation. This is a select choir and placement is by audition. The precepts of advanced musicianship will be stressed in this course. All MHS vocal students have daily rehearsals involving voice training while studying a wide variety of musical styles from various periods, and diverse cultures, and singing in a variety of languages. Concerts are presented quarterly throughout the year. During quarter three, the Concert Choir performs for Region VI-AA Large Group Vocal Contest. Study/travel opportunities are an optional part of this course.

Instructional Methods/Assessments:
Students will learn vocal pedagogy through vocal exercises, breath management techniques and vowel study. Performance pieces are learned through sectional and full group rehearsal. Active listening will be practiced daily. Sight-reading and ear training will be presented from a variety of sources. Assessments include rehearsal skills, concert participation, written critiques of vocal performances, singing and written tests.

Recommended Background for Success:
Students must demonstrate advanced rehearsal habits, use excellent vocal skills, model beauty and strength of tone, sight reading skills and singing in tune.

MUSIC TECHNOLOGY

Course #4780
This course completes .5 towards the Arts credit.
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Interest in music composition

Course Description:
In this project-based course, students will explore music composition using Digital Audio Workstations, looping software, MIDI and live audio recording. Projects will include composition using music technology, film scoring, editing sound files, podcasting and creating mash-up compositions. All students are welcome regardless of prior music knowledge. The ability to read music is not necessary for success in this course. Students will be evaluated through daily assignments, unit quizzes, and individual composition projects. A final composition project will be completed for the end of the semester.

Instructional Methods/Assessments:
Short teacher demonstrations, some lectures and teacher directed student work allow students to gain the skills necessary for self-directed projects. Daily assignments, unit quizzes and individual projects will be used for student assessment.

Recommended Background for Success:
No previous music experience or knowledge is necessary. Students who can perform on an instrument may find this helpful, but playing an instrument is not required. The ability to read music is not necessary for success in this course

MUSIC THEORY I

Course #4770
This course completes .5 towards the Arts credit.
Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Interest in music

Course Description:
Music Theory 1 is a one-term class designed for students who want to develop and increase skills in reading, writing, listening and analyzing music. This class will introduce students to the elements of music such as: melody, harmony, rhythm, form expression, and the texture of sounds. Students will become familiar with the various elements of music through analysis, listening, and discussions. Students will gain an understanding and appreciation for the elements of Western music styles and will experience the creative process through composition projects. An introduction to computer based composition and arrangement will also be a component in the course. No previous music experience is necessary but is helpful. Public performance is not a requirement of the class. Students will be evaluated on the basis of class participation/daily work, selected projects, quizzes, and a notebook. A final examination will be given at the end of the term.

Instructional Methods/Assessments:
Students develop individual composition projects, use the computer for drill and practice of music theory concepts, sight-sing, analyze compositions, and create compositions using computer notation software. Assessments include tests, quizzes, projects, student progress reports, self-evaluation, peer evaluation, and teacher evaluation.

Recommended Background for Success:
Previous music experience is not necessary, but is helpful.

AP MUSIC THEORY

Course #AP700
This course completes .5 towards the Arts credit
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: A or B in Theory 1 or pretest/application prior to registration

Course Description:
Music Theory 2 is a one-term class designed for students who have some experience in music but want to further develop and increase skills in reading, writing, listening, and analyzing music. It is also designed to prepare students interested in studying music at the post-secondary level. This class is designed as a continuation of Music Theory 1 but is accessible to students with previous music experiences. Students will have in depth experiences in ear training, computer notation, arranging, music analysis, and compositional techniques with historical perspectives. Previous music experience is necessary for enrollment. Public performance is not a requirement of the class. Students will be evaluated on the basis of class participation/daily work, selected projects, quizzes, and a notebook. A final examination will be given at the end of the term. It is expected that students electing this course will take the AP Exam.

Instructional Methods/Assessments:
Students develop individual composition projects, use the computer for drill and practice of music theory concepts, sight-sing and, analyze compositions. Assessments include prior knowledge, tests, quizzes, projects, student progress reports, self-evaluation, peer evaluation and teacher evaluation.

Recommended Background for Success:
Previous music experience is necessary for enrollment.

IB MUSIC SL

Course #IB712 S1
Course #IB714 S2
Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisite: Concurrent registration in Concert Choir, Treble Choir, Wind Ensemble, Concert Orchestra, Chamber Orchestra or Symphony Orchestra. Theory pre-test or AP Music Theory.

Course Description:
This course will examine the major style periods of Western music and explore the diversity of music throughout the world. Comparisons and observations will be made about art, society, and world events as they relate to the music style. The

class emphases include the use of appropriate musical language and terminology to describe and reflect critically about music, the development of perceptual skills in response to music, and the knowledge and understanding of music in relation to time and place. Students will also identify composers, forms, cultural influences and style through developing critical listening skills. Extensive musical score study and aural study will provide the primary vehicle for accomplishing the goals of the course. Students are advised to take music theory before or while taking this course. Concurrent registration in one of the listed ensembles is required, as group performance assessment is a required part of the course and the IB internal assessments. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

TONKA ONLINE AMERICAN POPULAR MUSIC

Course #T600*, Tonka Online
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 9-12
Credits: .5 (Semester Course)
Prerequisite: An interest in music

Course Description:
American Popular Music is a one-term course designed for students who would like to explore the history of popular music in the United States from the early 19th century to today. Topics will include Early American Pop Music, Jazz and Blues, the Swing Era, Early Rock & Roll, The British Invasion, the 1960's, the MTV era, Hip-Hop, and the music of today. Students will be evaluated on daily work, online discussion posts, unit written quizzes, listening quizzes, individual projects, and a final examination.

Instructional Methods/Assessments:
Online discussions, interactive assignments, quizzes and extensive music listening will be a part of the learning experience.

Recommended Background for Success:
No previous music experience or knowledge is necessary, but may be helpful. A willingness to learn about and discuss the history of popular music is required.

Physical Education

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
FITNESS FOCUS CLASSES (A)- 0.5 CREDIT REQUIRED FOR PHYSICAL EDUCATION				
.5	4996	Adaptive PE, S1	None	9-12
.5	4998	Adaptive PE, S2	None	9-12
.5	4905	The Mix A	None	9-12
.5	4906	Sports Fit A	None	9-12
.5	4907	Strength Fit A	None	9-12
.5	4908	Yoga Fit A	None	9-12
.5	4924	Alternative Physical Education	None	9-12
.5	T500*	Fitness A, Tonka Online Select Term: T500S / T500F / T500W	None; Tonka Online fees apply for summer.	9-12
.5	V200	VANTAGE: Health Sciences, S1 (credit toward Physical Education requirement)	Physical Science and Algebra; Chemistry is strongly recommended; interest in health sciences or sports medicine, application process	11-12
WELLNESS FOCUS CLASSES (B) - 0.5 CREDIT REQUIRED FOR PHYSICAL EDUCATION				
.5	4916	Body-Mind Rejuvenation B	One Fitness A Course	9-12
.5	4922	Dance B	One Fitness A Course	9-12
.5	T502*	Wellness Program B, Tonka Online Select Term: T502S / T502F / T502W	One Fitness A Course; Tonka Online fees apply for summer.	9-12
5	4910	Team and Dual Sports B	One Fitness A Course	9-12
.5	4963	Peak Performance B	One Fitness A Course	9-12
.5	4914	The Mix B	One Fitness A Course	9-12
.5	V200	VANTAGE: Health Sciences, S2 (credit toward Physical Education requirement)	Physical Science and Algebra; Chemistry is strongly recommended; interest in health sciences or sports medicine, application process	11-12
ELECTIVES - PHYSICAL EDUCATION ELECTIVE CLASSES (E) (Do not count toward the 1.0 P.E. requirement)				
.5	4926	Body-Mind Rejuvenation II E	Yoga Fit A and/or Body-Mind Rejuvenation B	10-12
.5 .5	4964 4965	Peak Performance II E, S1 Peak Performance II E, S2	Strength fit A or peak performance B Strength fit A or peak performance B	9-12 9-12
.5	4911	Team and Dual Sports II E	Students should have successfully completed both required PE courses.	9-12
.5	4977	Outdoor Experience E	Students should have successfully completed both required PE courses.	11-12
.5	4915	The Mix II E	Students should have successfully completed both required PE courses.	10-12

This logo denotes Tonka Online courses. * For all Tonka Online courses, indicate the term you are selecting by adding an S-summer, F-fall or W-winter term. When registering for two-semester courses, complete part 1 before taking part 2.

Physical Education

The District requires all students to successfully complete two semesters of physical education: One fitness and one wellness course. These courses may be completed during any grade 9-12. The District recognizes that it may be difficult for some students to take all of the other courses they wish to take and meet the physical education requirement. Therefore, students may enroll in Tonka Online physical education during the summer or any semester.

Students who have difficulty fitting physical education into their schedule and are carrying a full course load of six credits each semester may apply for a waiver from the wellness credit of the physical education requirement. This waiver requires the prior approval by the Principal and final approval by the School Board. The waiver is not an alternative way to earn credit for physical education; it is an exemption from the .5 credit. A student getting the waiver must take six classes during the regular school day for each year of high school. This is the basic test for not having time to meet the physical education requirement. To apply for the waiver the student must meet with their counselor, complete the proper forms and gain the Principal's approval in advance of starting the physical fitness option selected. The completion of the physical fitness option will be fully monitored for compliance. As a student who has been approved for this option completes the second semester of the senior year, all criteria will be verified by the Principal. The name of the student applying for waiver will be submitted to the School Board for final approval. Only the Board can ultimately waive a graduation requirement. If the student does an alternative activity and does not take the required full load of classes, the waiver will be denied by the School Board. This could result in a student not graduating on time. Careful planning for meeting this option is required. Students who are engaged in a rigorous course of study and carry a full course load of 24 credits over four years may apply for an exception from the second semester of physical education with the following conditions:

- Student maintains a full course load of six classes per semester each year.
- Student participates in and completes a sanctioned Minnetonka High School athletic activity (includes interscholastic or intramural sports); or participates in another physical fitness plan as approved by the Principal.
- Time spent participating in the fitness activity must be equivalent to that of a typical semester class.
- No credit will be awarded.
- No grades will be given for the activity.
- Principal's prior approval must be granted before the student engages in the fitness activity.
- The alternative activity may be completed any time during high school.
- Approval for an exemption must be submitted to the Principal no later than the last day of the first semester of the senior year.

FITNESS (A)- 0.5 REQUIRED PHYSICAL EDUCATION CLASSES

The fitness courses will lay the foundation for students to engage in a lifetime of physical activity. These courses provide an introduction, instruction, and involvement in cardiovascular, strength training, and flexibility exercises utilizing a variety of training techniques. Heart rate monitors are utilized on a regular basis in order to emphasize the importance of monitoring heart rate in order to execute a workout properly and gain the most cardiovascular benefit. Fitness assessment and goal setting will be emphasized.

THE MIX A

Course #4905

This course completes .5 towards the Physical Education credit.

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

The emphasis in The Mix A is on cardiovascular fitness while incorporating strength, flexibility, and sport concepts. Students enrolled in Cardio Fit will engage in a variety of cardiovascular based activities on most days of the week including, but not limited to, the MHS Physical Fitness Center, step aerobics, circuit training, kickboxing, Zumba, and outdoor walking/jogging. Other days of the week will be used to participate in activities such as yoga, Pilates, strength training, and sport activities.

Instructional Methods/Assessments:

Instructional methods include demonstrations, discussions, videos, study guides and participation. Assessments include written exams, worksheets, skills testing, daily observation, attendance, and participation.

SPORTS FIT A

Course #4906

This course completes .5 towards the Physical Education credit.

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

The emphasis in Sports Fit is on sport activities while incorporating cardiovascular, strength, and flexibility concepts. Students enrolled in Sports Fit will engage in a variety of sports based activities on most days of the week including, but not limited to, badminton, basketball, broomball, floor hockey, soccer, volleyball, tennis, football. Other days of the week will be used to participate in activities such as yoga, Pilates, strength training, and cardiovascular activities.

Instructional Methods/Assessments:

Instructional methods include demonstrations, discussions, videos, study guides and participation. Assessments include written exams, worksheets, skills testing, daily observation, attendance and participation.

STRENGTH FIT A

Course #4907

This course completes .5 towards the Physical Education credit.

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:

Strength Fit will provide students the opportunity to learn the most comprehensive progressive resistance exercise methodologies and evidence-based strength training principles. The purpose of the course is to facilitate the learning of independent lifelong fitness skills that will enhance quality of life and healthy lifestyles. Students will develop optimal muscular strength potentials in a manner that is prudent, productive, practical and purposeful. That is to say, maximal levels of muscular strength -- developed in the safest, most successful, sensible and evidence-based manner.

Strength training will be scheduled on non-consecutive days. Non-Strength Training days will include students participating in competitive conditioning, agility, team sports and group fitness projects. This course is designed to address the human performance needs of the beginner as well as the experienced fitness enthusiast. NO PRIOR TRAINING EXPERIENCE IS

Physical Education

REQUIRED. Students enrolled in this course during their competitive season will learn to modify their training program to the rigors and demands of the competition schedule.

Instructional Methods/Assessments:
Instructional methods include demonstrations, discussions, videos, study guides and participation. Assessments include written exams, worksheets, skills testing, daily observation, attendance and participation.

YOGA FIT A

Course #4908

This course completes .5 towards the Physical Education credit.

Grade(s) offered: 9- 12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
The emphasis in Yoga Fit is on flexibility fitness while incorporating cardiovascular, strength, and sport concepts. Students enrolled in Yoga Fit engage in yoga practice on most days of the week. Other days of the week will be used to participate in Pilates, strength training, cardiovascular activities, and sport activities.

Instructional Methods/Assessments:
Instructional methods include demonstrations, discussions, videos, study guides and participation. Assessments include written exams, worksheets, skills testing, daily observation, attendance and participation

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ALTERNATIVE PHYSICAL EDUCATION

Course #4924

This course completes .5 towards the Physical Education credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Building Team Approval

Course Description:
This course is intended for the student who has a long-term medical situation or other reason keeping him/her from participating in regular physical education and who must fulfill his/her high school physical education credit. A "Building Team" recommendation is required to enroll in the course. This is not a special education class; it is a class for mainstream students with long-term medical situations that do not allow full participation in a regular physical education class.

Instructional Methods/Assessments:
Instructional methods include lectures, demonstrations, guided practice and video demonstration. Assessments include daily attendance, participation, written exams, skills evaluations, and daily observations.

Recommended Background for Success:
Students should have successfully completed one Fitness course.

TONKA ONLINE FITNESS A

Course #T500*, Tonka Online
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 9-12
Credits: .5
Prerequisites: None. Fees apply for summer.

Course Description:
Online Fitness creates an opportunity for students to extend their learning around a school-sponsored sport or lifetime fitness activity outside of school. Students will use a Fitbit to track their physical activity; students will be expected to complete 12,000 steps per day on school days for fall and spring semester courses and 15,000 steps per day five days of the week for the summer semester course. Students will achieve a higher level of health literacy focusing on individual fitness.

Instructional Methods/Assessment:
Instruction will be delivered through an online environment utilizing readings, videos, and online discussions. Assessments include online discussions, quizzes, worksheets, journaling, a written exam, and daily physical activity.

Recommended Background for Success:
Students should have successfully completed Physical Education K-8. Students should expect to engage in moderate to vigorous physical activity for 30-45 minutes per day on school days* and an additional 30-45 minutes per week to complete written course work.
*Students should expect to engage in moderate to vigorous physical activity for 45-60 minutes per day on five days of the week in the summer semester.

VANTAGE: HEALTH SCIENCES

Course #V200

This course completes 1.0 towards the Physical Education credit.

Grade(s) offered: 11-12
Credits: 3.0
Earning credits in AP Psychology (social studies credit), Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)
Prerequisites: Physical science; algebra; interest in healthcare or sports medicine and science; chemistry strongly recommended. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 118

WELLNESS (B)- 0.5 REQUIRED PHYSICAL EDUCATION CLASSES

The wellness courses are designed to enhance the students' well-being in the present and future by combining the benefits of exercise with a comprehensive self-directed approach to maintaining a healthy and well-balanced lifestyle. All wellness courses will include cardiovascular, strength, and flexibility components for health-related fitness. Topics will include breathing techniques, nutrition, sleep, stress management, and fitness.

BODY-MIND REJUVENATION B

Course #4916

This course completes .5 towards the Physical Education credit

Grade(s) Offered: 9-12
Credits: .5 (Semester Course)
Prerequisites: One Fitness A course. No prior yoga experience necessary

Course Description:
This course is designed to provide students with a lower intensity, stress relieving experience that mirrors many of the popular studio classes found in local health clubs. It is a great option for all students, including those already competing in an after-school activity, looking for a less physically intense, educational physical education experience. Through Pilates, yoga, and other activities, the course will incorporate core strengthening, flexibility enhancement, muscular endurance (non-machine, body weight exercises), balance/stability training, breathing and relaxation techniques, and light cardio.

Instructional Methods/Assessments:
Demonstrations, discussion, video, instructor, journal and participation. Focus will be on maintaining or improving each individual's overall fitness and wellness levels. Assessments include daily work, performance, journal assignments, pre- and post-testing, written tests as well as fitness planning.

DANCE B

Course #4922

This course completes .5 towards the Physical Education credit.

Grade(s) offered: 9 -12
Credits: .5 (semester course)
Prerequisites: One Fitness A course.

Course Description:
This course offers students the opportunity to participate and explore the world of dance, as well as enjoy the physical benefits of dance activity. Activity will include swing, tango, salsa, folk, hip-hop, and other dance techniques. Relaxation and Pilates will also be introduced.

Physical Education

Instructional Methods/Assessments:
Instructional methods include demonstrations, videos, guest artists, written handouts, and guided practice. Assessments include daily work, written work performance, and dance critiques.

TONKA ONLINE WELLNESS PROGRAM B

Course #T502*, Tonka Online
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 9-12
Credits: .5
Prerequisites: One Fitness A course. Fees apply for summer.

Course Description:
Online Wellness creates an opportunity for students to extend their learning around a school-sponsored sport or lifetime fitness activity outside of school. Students will use a Fitbit to track their physical activity; students will be expected to complete 12,000 steps per day on school days for fall and spring semester courses and 15,000 steps per day on five days of the week for the summer semester course. Students will achieve a higher level of health literacy focusing on individual wellness.

Instructional Methods/Assessments:
Instruction will be delivered through an online environment utilizing readings, videos, and online discussions. Assessments include online discussions, quizzes, worksheets, journaling, a written exam, and daily physical activity.

TEAM AND DUAL SPORTS B

Course #4910

This course completes .5 towards the Physical Education credit

Grade(s) Offered: 9-12
Credits: .5 (Semester Course)
Prerequisites: One Fitness A course

Course Description:
This curriculum is designed to enhance students' interest in a variety of lifetime sports and fitness activities. Opportunities will be provided for participation in team and dual sports such as: basketball, tennis, soccer, flag football, badminton, volleyball, team handball, floor hockey, and others. Cooperative team and dual concepts will be a focus, as well as principles of training to improve fitness. Participation, knowledge, strategy of the game will be expected to be a highly competitive level for this course.

Instructional Methods/Assessments:
Instructional methods include demonstrations, discussion, videos, instructor lead, and participation. Focus will be on Participation and cooperative team concepts. Assessments include written exams, work sheets, skills testing, daily observation, attendance, and participation.

PEAK PERFORMANCE B

Course #4963

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: One Fitness A course

Course Description:
The Peak Performance B course is designed to provide students with an opportunity to strength-train using the Pagel Center weight room facility. Students will learn strength-training protocols that will enhance their strength, power, speed, agility and body composition. Wellness concepts such as rest and recovery and nutritional principles that will boost performance will also be addressed. No prior training experience is required.

This course is designed to address the human performance needs of the beginner as well as the experienced fitness enthusiast. No prior training experience is required. Students enrolled in this course during their competitive season will learn to modify their training program to the rigors and demands of the competition schedule.

THE MIX B

Course #4914

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: One Fitness A course

Course Description:
This course offers students an opportunity to participate and enjoy the benefits of fitness and cardio based activities. The MHS Cardio Fitness Center will be used for a variety of aerobic workouts and be used regularly. Other fitness and cardio based options to be included throughout the semester include circuit training, strength training, Yoga, kick boxing, band workouts, step aerobics, sports play and relaxation techniques. No prior experience in fitness is necessary and the intensity level varies based on the activity.

Instructional Methods/Assessments:
Instructional methods include demonstrations, discussion, videos, instructor lead, and participation. Assessments include written exams, worksheets, daily observation, attendance, and participation.

PHYSICAL EDUCATION ELECTIVES (E)

BODY-MIND REJUVENATION II E

This course does not fulfill the P.E. requirement.

Course #4926

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Yoga Fit A and/or Body-Mind Rejuvenation B

Course Description:
This elective course is designed to provide students with a variety of stress reduction experiences using the practice of yoga, Pilates, and other stretching techniques. Core strengthening, flexibility, muscular strength endurance, balance/stability training, breathing, and relaxation techniques will be implemented in the course. A variety of light cardio activities will be included weekly. The emphasis of this course will be on stress reduction, proper nutrition, and general well being.

Instructional Methods/Assessment:
Instructional methods include demonstrations, videos, discussions, guided practice and handouts. Guest speakers and a field trip will also be included. Assessments include daily work, performance, written tests, journal assignment and class observations.

Recommended Background for Success:
Students should have successfully completed Yoga Fit A and/or Body-Mind Rejuvenation B.

PEAK PERFORMANCE II E

This course does not fulfill the P.E. requirement.

Course #4964, S1
Course #4965, S2

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Strength Fit A or Peak Performance B

Course Description:
This course is designed for those students wanting to optimally enhance all aspects of their specific athletic and/or recreational human performance pursuits. The purpose of the course is to facilitate the learning of more advanced evidence-based training protocols that will maximize the student's strength, power, speed, agility, flexibility, body composition and metabolic conditioning needs/goals. Students will learn how basic physics and motor learning concepts influence exercise outcomes and will further boost peak performance.

This course is designed to address the human performance needs of the beginner as well as the experienced fitness enthusiast. Students enrolled in this course during their competitive season will learn to modify their training program to the rigors and demands of the competition schedule.

Physical Education

TEAM AND DUAL SPORTS II E

This course does not fulfill the P.E. requirement.

Course #4911

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Completed 1.0 PE requirement

Course Description:
Team and Dual Sports II E class is designed for the student who wants to participate in a variety of team sport activities. Activities will include sports such as football, soccer, volleyball, basketball, softball, team handball, lacrosse, broomball, ice-skating, badminton, and others as decided upon by class members and instructor.

Instructional Methods/Assessments:
Instructional methods include lectures, demonstrations, guided practice and video demonstrations. Assessments include daily work, leadership project, and team strategy.

Recommended Background for Success:
Students should have an interest in team and dual sports.

OUTDOOR EXPERIENCE E

This course does not fulfill the P.E. requirement.

Course #4977

Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: Completed 1.0 PE requirement

Course Description:
This course is designed to give students the opportunity to learn a variety of outdoor and recreational skills as well as experience and enjoy the environment in which we live. Activities could include hiking, backpacking, basic camping skills, outdoor cooking, canoeing, kayaking, archery, rock climbing, snow shoeing, biking, skateboarding, swimming, fishing and team challenges.

Instructional Methods/Assessments:
Instructional methods include lectures, demonstrations, presentations, guided practice, guest speakers, videos, and field trips. Students are expected to participate in class activities and field trips. Students will be expected to bring appropriate clothing for outdoor participation. Several class activities are held off-site; in general, students provide their own transportation to off-site locations. Students will need to have transportation permission forms on file. Students must bring a bike during the biking unit.

Recommended Background for Success:
Students should have an interest in outdoor activities.

THE MIX II E

This course does not fulfill the P.E. requirement.

Course #4915

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Completed 1.0 PE requirement

Course Description:
This course offers committed students the opportunity to continue to participate in and enjoy the benefits of cardiovascular, strength, and flexibility activities. Activity will be individually planned and prescribed based on individual fitness profiles. The MHS Physical Fitness Center will be used for a variety of cardiovascular workouts. Activity options will include step, circuit training, strength training, resistance band workouts, flexibility, stress reduction/relaxation workouts, yoga, kickboxing, Pilates, kettlebells, medicine balls, and others.

Instructional Methods/Assessments:
Instructional methods include demonstrations, discussion, videos, instructor lead, and participation. Assessments include worksheets, projects, and daily observation.

Recommended Background for Success:
Students are suggested to have successfully completed The Mix B, but not required.

Science

All students are required to complete 3.0 credits of science. All students are required to complete 1 credit of Physical Science and 1 credit of Biology. In addition, the Minnesota Department of Education requires all students to complete one year of Chemistry or Physics starting with the graduating class of 2015.

The vast majority of MHS students take four years of science in the following sequence: Physical Science (9th), Chemistry (10th), Physics (11th or 12th), and Biology (11th or 12th). Modern concepts in Biology rely heavily on concepts in Chemistry; therefore, Chemistry is prerequisite to all courses in biology.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	2400 2402	Integrated Physical Science G, S1 Integrated Physical Science G, S2	None	9
.5 .5	2404 2406	Integrated Physical Science Honors, S1 Integrated Physical Science Honors, S2	A or B in 8th grade Algebra and A or B in 8th grade Earth Science	9
.5 .5	2500 2502	Principles of Chemistry, S1 Principles of Chemistry, S2	Successful completion of Physical Science G	10-12
.5 .5	2504 2506	Chemistry G, S1 Chemistry G, S2	C or better in Physical Science G or Honors	10-12
.5 .5 .5 .5	2508 2509 T214 T215	Chemistry Honors, S1 Chemistry Honors, S2 Chemistry Honors, part 1, Tonka Online Select Term: T214S / T214F / T214W Chemistry Honors, part 2, Tonka Online Select Term: T215S / T215F / T215W	A or B in Physical Science Honors, A in general Physical Science or Physics 1. Concurrently enrolled in Higher Algebra or beyond.	10-12
.5	T213S	Pre-AP Chemistry, summer, Tonka Online	Students should be registered for AP Chemistry in the fall; optional course for preceding summer, elective credit	9-12
.5 .5	AP304 AP306	AP Chemistry, S1 AP Chemistry, S2	A or B in Physical Science Honors with teacher recommendation and A or B in Higher Algebra	10-12
.5 .5	T200* T202*	AP Environmental Science, part 1, Tonka Online Select Term: T200S / T200F / T200W AP Environmental Science, part 2, Tonka Online Select Term: T202S / T202F / T202W	Chemistry, Physical Science. This course may also be taken through VANTAGE course #V300	11-12
.5	2524	Human Anatomy & Physiology	Physical Science G or Honors, Chemistry	10-12
.5	2536	Earth & Space Systems	Physical Science G or Honors	10-12
.5	2538	Meteorology	Physical Science G or Honors	10-12
.5	2540	Astronomy	None	10-12
.5 .5 .5 .5	2600 2602 T204 T205	Physics G, S1 Physics G, S2 Physics G, part 1, Tonka Online Select Term: T204S / T204F / T204W Physics G, part 2, Tonka Online Select Term: T205S / T205F / T205W	Physical Science G or Honors	11-12
.5 .5 .5 .5	AP300 AP302 AP316 AP318	AP Physics 1, 9th grade, S1 AP Physics 1, 9th grade, S2 AP Physics 1, S1 AP Physics 1, S2	8th grade Physical Science, Higher Algebra, 99th percentile math & reading Physical Science, Chemistry and Precalculus	9 9 11-12 11-12
.5	T208W	AP Physics C–Mechanics, Tonka Online	Have completed or be enrolled in both AP Physics 1 AND a calculus course	10-12
.5 .5	AP324 AP326	AP Physics C – Electricity and Magnetism with topics in Modern Physics, S1 AP Physics C – Electricity and Magnetism with topics in Modern Physics, S2	Calculus course and AP Physics 1 (or another physics course with teacher recommendation). AP Physics C-Mechanics Online is highly recommended but not required.	11-12

This logo denotes Tonka Online courses. * For all Tonka Online courses, indicate the term you are selecting by adding an S-summer, F-fall or W-winter term. When registering for two-semester courses, complete part 1 before taking part 2.

Science

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	AP328 AP330	AP Physics 2, S1 AP Physics 2, S2	AP Physics 1 or General Physics, Chemistry, Precalculus or Higher Algebra	11-12
.5 .5	2612 2614	Applied Physics, S1 Applied Physics, S2	Physical Science, Quadratic Algebra	11-12
.5 .5	2700 2701	Principles of Biology, S1 Principles of Biology, S2	Physical Science, Chemistry is strongly recommended.	11-12
.5 .5	2702 2704 T222* T223*	Biology G, S1 Biology G, S2 Biology G, part 1, Tonka Online *Select Term: T222S / T222F / T222W Biology G, part 2, Tonka Online *Select Term: T223S / T223F / T223W	Physical Science, Chemistry	11-12
.5	T217S	Pre-AP Biology, summer only, Tonka Online	Students should be registered for AP Biology in the fall; optional course for preceding summer, elective credit	10-11
.5 .5	AP320 AP322	AP Biology, S1 AP Biology, S2	Physical Science and Chemistry	11-12
.5 .5	2800 2802	Scientific Research, S1 Scientific Research, S2	Successful completion of an AP or IB Science course. Student must have achieved a 3 or higher on an AP Science Exam or a 4 or Higher on an IB Science exam. (Students should also take all core sciences of Chemistry, Biology and Physics during their four years. This does not replace one of those.) Application process	10-12
.5 .5	2804 2806	Scientific Research II, S1 Scientific Research II, S2	Successful completion of Scientific Research #2800 and #2802 and recommendation of a Scientific Research instructor. Application process.	11-12
.5 .5	IB500 IB502	IB Biology SL, S1 IB Biology SL, S2	Chemistry G or Honors	11-12
.5 .5	IB508 IB510	IB Biology HL, S1 IB Biology HL, S2	IB Biology SL	12
.25	T220	Excel and Statistics in Biology, Tonka Online Select Term: T220S / T220F / T220W	None	9-12
.5 .5	IB512 IB514	IB Physics SL, S1 IB Physics SL, S2	Chemistry	11-12
.5 .5	IB516 IB518	IB Sports, Exercise and Health Science SL, S1 IB Sports, Exercise and Health Science SL, S2	Chemistry, Physical Science This course may also be taken through VANTAGE #V200	11-12
3.0	V200	VANTAGE: Health Sciences Earning credits in AP Psychology (social studies credit) Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)	Physical science; algebra; interest in healthcare or sports medicine and science; chemistry strongly recommended. Application process This course also fulfills the 1.0 PE requirement.	11-12
2.0	V300	VANTAGE: Global Food Sustainability: Economics and the Environment earning credit for AP Environmental Science (science credit) and Global Studies & Economics (social studies credit)	Biology G, AP Biology or IB Biology SL Interest in sustainability Application process	11-12

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INTEGRATED PHYSICAL SCIENCE G

Course #2400, S1
Course #2402, S2
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This required course includes units of measurements, introductory chemistry and introductory physics. Measurements include activities on mass, volume, density, temperature and heat. Chemistry involves topics relating to solubility, atomic structure, chemical reactions, formulas and symbols, naming elements, and compounds. Physics includes nuclear energy, heat, light, sound, electricity, forces, and motion.

Instructional Methods/Assessments:
Instructional methods include lectures, labs, videos, demonstrations and readings. Assessments include quizzes, tests, lab reports, homework assignments and unit tests.

Recommended Background for Success:
Students should be taking Algebra or Geometry and prepared to participate in class.

INTEGRATED PHYSICAL SCIENCE HONORS

Course #2404, S1
Course #2406, S2
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: A or B in 8th grade Algebra, A or B in 8th grade Earth Science

Course Description:
This course provides an introduction to the areas of chemistry and physics. Topics are similar to those in general level courses but are studied in depth with more emphasis on higher level thinking skills in problem solving. Both inductive and deductive activities are used with emphasis on the development and use of higher math skills.

Instructional Methods/Assessments:
Instructional methods include lectures, labs, videos, worksheets, homework assignments/ reading (4-5 days/week) and problem solving workdays. A variety of strategies incorporating technology are used. Assessments include lab participation, lab write-ups, tests, quizzes and homework.

Recommended Background for Success:
Students should be taking Geometry or Higher Algebra and prepared to participate in class.

PRINCIPLES OF CHEMISTRY

Course #2500, S1
Course #2502, S2
Grade(s) offered: 10-12
Credits: .5 (per semester
Prerequisites: Successful completion of Physical Science G or Honors

Course Description:
This course is designed for students to learn the basic principles and real-world applications of chemistry in simplified college preparatory class. Scientific methods and problem solving are used to analyze chemical concepts, especially as they relate to current social, community, and technological facts, issues, and concepts.

Instructional Methods/Assessments:
Instructional methods include open and guided inquiry lab work, state of the art conceptual simulations, daily formative practice, discussion and analysis of video clips, small and large group discussion, and independent science research projects. Assessments include lab experiments with written lab summaries, tests, quizzes, homework and projects.

Recommended Background for Success:
Understanding of basic principles of chemistry from prerequisite Physical Science course. Prior completion of Algebra is recommended.

CHEMISTRY G

Course #2504, S1
Course #2506, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: C or better in Physical Science G or Honors

Course Description:
Chemistry G is a college preparatory class that teaches students basic chemistry principles and real-world applications of chemistry in society. Students also learn to apply scientific methods and reasoning, state of the art simulations, and mathematics to help understand and explain chemistry concepts. An emphasis is placed on connecting these understandings to current social, community, and technological issues and advances.

Instructional Methods/Assessments:
Instructional methods include guided and open inquiry lab work, advanced software simulations to visualize complex concepts, daily formative practice, video clip discussion and analysis, lecture and class discussion, selected readings, problem solving, and a multi-faceted approach using technology. Assessments include engineering projects, lab activities with written lab summaries, tests, quizzes, homework, and projects.

Recommended Background for Success:
Understanding of basic principles of chemistry from prerequisite Physical Science course. Competent algebra and problem solving skills.

CHEMISTRY HONORS

Course #2508, S1
Course #2509, S2
Course #T214*, part 1, Tonka Online
Course #T215*, part 2, Tonka Online
*Select term S=summer, F=fall, W=winter
*Online, complete part 1 before part 2.
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: A or B in Physical Science Honors; A in general Physical Science or Physics 1. Concurrently enrolled in Higher Algebra or beyond.

Course Description:
This course is for students who want an in-depth and rigorous approach to learning chemistry, and its connection to the real-world. Students use scientific methods, reasoning, and mathematics to solve problems, understand, and explain chemistry concepts. These techniques are enhanced with laboratory experiences, state of the art simulations, and discussions or readings of current issues in society.

Instructional Methods/Assessments:
Instructional methods include guided inquiry and open inquiry lab work, advanced software simulations to visualize complex concepts, daily formative practice, video clip analysis, lecture and class discussion, selected technical science readings, and complex problem solving. Assessments include lab activities with written lab summaries, engineering projects that are done individually and in small groups, unit tests, quizzes, homework , and other projects. Tonka Online: Students will receive direct instruction through video lectures and complete projects using various iPad apps such as Adobe Voice, Popplet, Color Uncovered and Explain Everything. Students will also use the Late Nite Labs program to conduct chemistry experiments online. In-school experiments are also a required component of the course. Assessments will be both formative and summative and involve quizzes, unit exams, projects and laboratory tests and formal laboratory reports.

Recommended Background for Success:
Proficient understanding of chemistry principles from prerequisite Physical Science course. Concurrent enrollment in Higher Algebra or beyond, and strong problem solving skills. Tonka Online: Students will need to be highly motivated learners with strong reading, algebra and problem-solving skills. Organization and

Science

time management are key components of online learning. Additionally, students will need the ability to complete assignments and advocate for their learning needs via Schoology.

TONKA ONLINE PRE-AP CHEMISTRY

This course completes .5 toward an elective credit.

Course #T213S, summer only, Tonka Online

Grade(s) offered: 9-12
Credits: .5 (summer only)
Prerequisites: Students should be registered for AP Chemistry in the fall; optional course for preceding summer.

Course Description:
This course follows the first semester curriculum of Honors Chemistry and includes support for the AP Chemistry summer assignment. Topics include significant figures, advanced nomenclature, periodic properties, atomic theory, multi-step stoichiometric calculations and chemical reactions. The overall goal of the course is to provide a pathway for prospective AP Chemistry students to solidify a strong chemistry foundation as they transition to college level coursework.

Instructional Methods/Assessments:
Students will receive direct instruction through video lectures and complete projects using various iPad apps such as Adobe Voice, Popplet, Color Uncovered and Explain Everything. Assessments will be both formative and summative and involve quizzes, exams, projects and laboratory reports.

Recommended Background for Success:
Students will need to be motivated learners with strong reading skills. This is a face-paced online course in which students will need to advocate for their learning needs via Schoology. Tonka Online orientation materials will be provided.

AP CHEMISTRY

Course #AP304, S1
Course #AP306, S2

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: A or B in Physical Science Honors and Higher Algebra

Course Description:
The goal of an AP Chemistry course is to provide students with the opportunity to learn the concept and applications of first-year college Chemistry. A process of problem solving is continually modeled and reinforced through lectures, demonstrations, and laboratory components. Topics include stoichiometry, thermochemistry, atomic structure, bonding, gases, acid-based reactions, kinetics, equilibrium, solutions, descriptive chemistry, electrochemistry and properties of solids. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
The course follows the outline that is provided by the AP College Board. Students develop organized methods to solve problems associated with first year college chemistry through lectures, laboratory work, quantitative problem solving, and group work. Documentation of successful completion of this course is provided by the AP Chemistry Examination in May. Students are tested throughout the year using multiple choice and free response format questions similar to the AP exam. Each student is required to maintain a laboratory notebook.

Recommended Background for Success:
A solid understanding of the concepts from General Chemistry as well as a mastery of Higher Algebra. Successful completion of Physical Science Honors along with teacher recommendation is necessary for incoming sophomores to enroll in AP Chemistry.

TONKA ONLINE AP ENVIRONMENTAL SCIENCE

Course #T200*, part 1, Tonka Online
Course #T202*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
This course may also be taken through VANTAGE #V300

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Chemistry, Physical Science

Course Description:
This is a full-year course for students interested in the world's natural environment and related issues. Students will analyze environmental issues and alternative solutions for resolving or preventing them. This multidisciplinary course will include diverse topics in sociology, ethics, earth science, ecology, population dynamics, land and water use, energy resources, pollution, and global change. It is expected that students electing this course will take the AP exam. AP Environmental Science is designed to be the equivalent of a one semester, introductory college course in environmental science.

Instructional Methods/Assessments:
Instructional methods include online lectures, tutorial activities, independent research projects, and field trips. Instructor support will be provided to students for each unit of study and exam preparation. Assessments include tests, quizzes, projects, lab reports and a final exam.

Recommended Background for Success:
A solid understanding of concepts in Life Science, Earth Science, Chemistry and/or Physical science.

HUMAN ANATOMY & PHYSIOLOGY

Course #2524

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Physical Science G or Honors, Chemistry

Course Description:
A course for students with an interest in how the human body works and for those with an interest in a healthcare-related field. This course studies anatomy (body structure) and physiology (body functions). The following body systems are studied: skeletal, muscular integumentary, nervous, respiratory and cardiovascular.

Instructional Methods/Assessments:
Class activities include lectures, laboratory activities, discussions and simulations. Students will dissect a pig heart and a fetal pig. Data logging software is used to collect information about muscle function, heart rhythms, and reflex speed. Guest speakers have included physicians, medical investigators, and other professionals in healthcare. Assessments include quizzes, unit tests, and a final exam.

Recommended Background for Success:
A desire to better understand the study of the human body. Have an understanding of basic Biology concepts.

EARTH AND SPACE SYSTEMS

Course #2536

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Physical Science G or Honors

Course Description:
A one-semester course designed to investigate and analyze earth and space systems. Units include early astronomy, tools of astronomers, origin and evolution of the universe, formation of stars and galaxies, plate tectonics, topographic maps, navigation using handheld GPS, geologic time and severe weather.

Instructional Methods/Assessments:
Instructional methods include projects, field trips, lectures, Night-time observation activities, and presentations. Formative assessments include: homework, labs, and quizzes. Summative assessments include unit projects, tests and a final exam.

Recommended Background for Success:
An understanding of basic Physical Science concepts.

Science

METEOROLOGY

Course #2538

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Physical Science G or Honors

Course Description:
A one-semester course designed to investigate and analyze interactions in the earth's atmosphere. This course examines the elements of weather, weather forecasting, and climate. Units will include composition and structure of the atmosphere, weather data collection, remote sensing, the nature and causes of wind, clouds and precipitation; air masses and fronts; severe weather; weather maps and forecasting, recent or current significant weather events, Skywarn spotter training, and the science of storm chasing.

Instructional Methods/Assessments:
Instructional methods include projects, field trips, lectures, and presentations. Formative assessments include: homework, labs, and quizzes. Summative assessments include unit projects, unit tests and a final exam.

Recommended Background for Success:
An understanding of basic Physical Science concepts.

ASTRONOMY

This course completes .5 of a Science credit.

Course #2540

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
If you want to know more about the night sky than just how to find the big dipper, then this course is for you. In this class, you will learn the constellations and how to use a telescope. You will also learn about the science and history of astronomy. We will use simple tools to measure motions of the moon and planets in the night time sky and we will learn how astronomers use only starlight to figure out how the universe works. Upon completion of this course, you will have a new appreciation for your place in our universe.

Instructional Methods/Assessments:
Visual aids, videos, hands-on labs will be used to demonstrate the tools used in astronomy. Students in this class will gain hands on experience observing the nighttime and daytime sky using the naked eye, binoculars, and telescope. Observations outside of the school day will be required. The class will take field trips to a nearby observatory to experience a "star party" under a clear sky. Assessment is based upon exams, lab reports, and participation in classroom discussion.

Recommended Background for Success:
Students will be expected to participate by reading, writing, and discussing the subject of astronomy.

PHYSICS G

Course #2600, S1

Course #2602, S2

Course #T204*, part 1, Tonka Online

Course #T205*, part 2, Tonka Online

***Select term S=summer, F=fall, W=winter**

***Online, complete part 1 before part 2.**

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science G or Honors

Course Description:
Practical applications are used to explore the basic ideas of physics. Topics in optics, wave motion, mechanics, energy, and electricity are normally studied. Nuclear physics is included if time permits. This laboratory-centered course is for students who may need a basic physics course in preparation for college or technical school programs.

Instructional Methods/Assessments:
Instructional methods include lectures, labs, lab reports, homework, and projects. Assessments include tests, quizzes, lab reports, homework, projects and a final exam.

Recommended Background for Success:
Algebra problem-solving skills.

AP PHYSICS 1

Course #AP300, S1 (grade 9)
Course #AP302, S2 (grade 9)
Course #AP316, S1 (grades 11-12)
Course #AP318, S2 (grades 11-12)

Credits: .5 (per semester)

Prerequisites

Grade 9: Enrolling in grade 9 requires successful completion of 8th grade Physical Science at MMW or MME, successful completion of Higher Algebra (students who have completed Geometry will have options to catch up with some Aleks math modules), and 99th percentile math and reading scores. Strong algebra and trigonometry skills are essential. For 9th grade students at Minnetonka, this course is integrated with English 9 Honors Communications. **Concurrent enrollment in AP Physics I (#AP300 and #AP302) and English 9 Honors Communications (#0910 and #0912) is required.** The English course focuses on preparing students for future research opportunities and for learning how to communicate in a technical and professional manner. Students learn how to write various technical reports, present scientific findings/ ideas and make persuasive presentations. There will also be a short summer assignment.

Grades 11-12: Successful completion of Physical Science, Chemistry and Precalculus.

Course Description:
AP Physics 1: Algebra-based is the equivalent to a first-semester college course in algebra-based physics, but is designed to be taught over a full academic year, allowing time for AP teachers and students to develop deep understanding of the content and to apply that knowledge through inquiry-based labs. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power; mechanical waves and sound. It will also introduce electric circuits. Algebra and Trigonometry are used throughout this lab-centered, technology intensive course. Strong emphasis is placed on building a deep conceptual and mathematical understanding of these main physics principles. The class also focuses on solving a variety of challenging problems and developing higher-level analytical problem solving and lab based skills. Successful completion of this course will prepare students for the AP Physics I exam. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, demonstrations, reading assignments, problem solving, and labs. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam. Current technology is integrated into the course instruction.

Science

Recommended Background for Success:
A solid understanding of the basic concepts in physical science and chemistry, as well as a mastery of the concepts of Higher Algebra.

TONKA ONLINE AP PHYSICS C-MECHANICS

Course #T208W, winter only, Tonka Online
***Select term W=winter**

Grade(s) offered: 10-12
Credits: .5 (Spring semester only)
Prerequisites: Have completed or be concurrently enrolled in both AP Physics 1 AND a calculus course.

Course Description:
AP Physics C-Mechanics Online: is the equivalent of a first-semester college course in calculus-based physics. This one-semester course is only offered during the spring semester and covers mechanics topics with a calculus lens in a self-paced/teacher-guided online format. These topics are Kinematics, Newton's Laws, Work/Energy/Power, Momentum, Rotation, and Oscillations. Successful completion of this program will adequately prepare students for the AP Physics C-Mechanics exam in the spring and is a strong preparation course for the year-long AP Physics– Electricity and Magnetism calculus-based course students could take the following year. Students electing to take this course are expected to take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Students complete self-study units using instructor created videos, online simulations, labs with common household items, and a college textbook. Formative online assessments and online homework help students know how they are progressing with the material. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam. Although students have flexibility within the units, each unit has specified deadline for summative assessments.

Recommended Background for Success:
Students who would like flexibility in their schedules and are self-motivated would be a good fit for this online science course. Prior completion of, or current enrollment in AP Physics 1 AND a calculus course is required.

AP PHYSICS C–ELECTRICITY AND MAGNETISM WITH TOPICS IN MODERN PHYSICS

This course completes 1.0 of a Science credit.

Course #AP324, S1
Course #AP326, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Calculus course and AP Physics 1 (or another physics course with teacher recommendation). AP Physics C-Mechanics Online is highly recommended but not required.

Course Description:
AP Physics C-Electricity & Magnetism is equivalent to a second semester calculus-based college physics course. The course will be taught as a Year-long course so that students can develop a greater understanding of the following content areas: electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields (along with Maxwell's Equations). Inquiry-based labs (and simulations) and problem solving strategies will be used throughout the course to develop critical thinking and lab skills. Successful completion of this course will prepare students for the AP Physics C: Electricity & Magnetism exam in May. It is expected that students electing this course will take the AP Exam, for which there is a fee. The course will also include an introduction to topics in Modern Physics such as nuclear reactions, particle physics, and relativity.

Instructional Methods/Assessments:
Instructional methods include lectures, reading assignments, problem solving, lab activities/projects, demonstrations, videos, and computer simulations. Assessments include tests, lab write-ups, quizzes, homework, projects, and final exam.

Recommended Background for Success:
Students should be prepared for a collegiate level, calculus-based, physics course by completing the math and physics prerequisites.

AP PHYSICS 2

Course #AP328, S1
Course #AP330, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: AP Physics 1 or General Physics, Chemistry, Precalculus or Higher Algebra

Course Description:
AP Physics 2: Algebra-based is the equivalent to a second-semester college course in algebra-based physics, but is designed to be taught over a full academic year, allowing time for AP teachers and students to develop deep understanding of the content and to apply that knowledge through inquiry-based labs. Through inquiry-based learning, students will develop critical thinking and reasoning skills as defined by the AP Science Practices. The course covers thermodynamics, fluids, electricity, magnetism, geometric and physical optics, and modern physics including quantum, atomic and nuclear. Algebra and Trigonometry are used throughout this lab-centered, technology intensive course. The class also focuses on solving a variety of challenging problems and developing higher level analytical problem solving and lab based skills. Successful completion of this program will adequately prepare students for the AP Physics 2 exam. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, video resources, demonstrations, reading assignments, problem solving, and labs. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam.

Recommended Background for Success:
Prior completion of AP Physics 1 or General Physics, as well as a mastery of the concepts of Higher Algebra.

APPLIED PHYSICS

Course #2612, S1
Course #2614, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science, Quadratic Algebra

Course Description:
Designed to give a conceptual view of the natural world. Physics will be treated with a minimal use of mathematics—with equations as guides to thinking rather than a recipe for algebraic problem solving. Applied Physics is a yearlong course that uses the basic principles of mechanics, energy, electricity, waves, and optics in understanding physical systems. The laboratory-oriented course is for students who do not intend to pursue science at a post high school level.

Instructional Methods/Assessments:
Instructional methods include lectures, labs, videos, worksheets, homework assignments/reading (3-4 days/week), and problem solving. Assessments include lab participation, lab write-ups, and projects such as bridges, water rockets, unit tests and quizzes, homework/class work, extra credit opportunities and a final exam.

Recommended Background for Success:
Students should have Basic skills in Algebra.

PRINCIPLES OF BIOLOGY

Course #2700, S1
Course #2701, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science, Chemistry is strongly recommended

Course Description:
A survey of the fundamentals of biology, with an emphasis on introductory biology topics. It examines the relationship of humans as organisms to the physical and biotic environment and some internal systems of humans. Cell structure and function, nutritional needs of cells and organisms, universal nature of the genetic code which allows genetic engineering, effects of pollutants and the basics of ecology, taxonomy, and the diversity of life are among topics covered. It is designed to be an introductory biology experience.

Instructional Methods/Assessments:
Instructional methods include labs, lectures, discussions, videos, computer software and Internet activities, periodical readings, and written assignments that include graphing and analysis. Assessments include lab write-ups, quizzes, tests, homework, textbook readings, tests offered quarterly, and a final exam

Recommended Background for Success:
An understanding of basic chemistry concepts.

BIOLOGY G

Course #2702, S1
Course #2704, S2
Course #T222*, part 1, Tonka Online
Course #T223*, part 2, Tonka Online
***Select term S-summer, F=fall, W=winter**
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science, Chemistry

Course Description:
This course is a study of biology, with an emphasis on biology topics at the cellular and molecular level. The concepts that are covered include the cell, membranes, biochemistry, metabolism, enzymes, photosynthesis, cell respirations, molecular basis of inheritance, cell division, patterns of inheritance, ecology, evolution and human body systems. This course is designed for students interested in having a more rigorous college-preparatory biology experience.

Instructional Methods/Assessments:
Instructional methods include labs, lectures, discussions, videos, computer software and Internet activities, periodical readings, and written assignments that include graphing and analysis. Assessments include lab write-ups, quizzes, tests, homework, textbook readings, tests offered quarterly and a final exam.

Recommended Background for Success:
An understanding of basic chemistry concepts.

TONKA ONLINE PRE-AP BIOLOGY

This course completes .5 toward an elective credit.

Course #T217S, summer only, Tonka Online
Grade(s) offered: 10-11
Credits: .5 (summer)
Prerequisites: Students should be registered for AP Biology in the fall; optional course for preceding summer.

Course Description:
Students in this 11-week summer course will complete online study and practice learning activities to prepare for the rigor and pace of Advanced Placement Biology. They will additionally receive online instruction and practice in use of excel and statistical analysis, skills used extensively in the lab component of the AP Biology course.

Instructional Methods/Assessments:
Videos, online text study assignments and assessment practice will be used to demonstrate the tools and study methods used in Advanced Placement Biology. Students in this class will gain experience reading and previewing biological topics at the college level. Assessment is based upon exams, study activities using the Campbell Text online learning tools (Mastering AP Biology), and participation in online Schoology online discussion board assignments.

Recommended Background for Success:
Students will be expected to participate by reading, completing study assignment and assessments, and discussing the topic of biological study. Students will need to be motivated learners with strong reading skills. This is a face-paced online course in which students will need to advocate for their learning needs via Schoology. Tonka Online orientation materials will be provided.

AP BIOLOGY

Course #AP320, S1
Course #AP322, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science, Chemistry

Course Description:
Advanced Placement Biology is designed to provide learning experiences equivalent to a first year college biology course. This course, along with the prerequisites will provide students with background in content areas parallel to AP Biology. Examination topics and required lab work for the course are framed around four big ideas: the process of evolution drives the diversity and unity of life, biological systems utilize energy and molecular building blocks to grow, reproduce and maintain homeostasis, living systems retrieve, transmit and respond to information essential to life processes, and biological systems interact, and these interactions possess complex processes. Completion of this program will adequately prepare students for AP Biology Examination. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include labs, lectures, reading assignments, discussions and extensive individual student preparation. Assessments include lab reports and examinations. This course will not require a summer study component.

Recommended Background for Success:
A solid understanding of basic concepts in Chemistry and/or Physics processes.

SCIENTIFIC RESEARCH (FULL-YEAR COURSE)

Hybrid Course, elective Science credit
Course #2800, S1
Course #2802, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Successful completion of an AP or IB Science course. Student must have achieved a 3 or higher on an AP Science Exam or a 4 or higher on an IB Science exam. Application process

NOTE: Students should take all core sciences of Chemistry, Biology and Physics during their four years. This does not replace one of those.

Course Description:
Students will learn the process of, and do, original scientific research around a scientific topic of interest to them. Students will work individually or as a team on research project of their choosing. Students will review and report on scientific literature, develop research questions, and learn the scientific research process including statistical analysis. Science research is a collaborative process and students will participate in a collaborative environment throughout the course. Work will be presented in a variety of ways including poster sessions, presentations and a scientific paper or journal article. Students will be expected to enter their research into local, state, regional or international competitions.

Instructional Methods/Assessments:
Instructional methods include lectures, video resources, discussions, reading assignments, problem solving, and labs. Assessments include tests, quizzes, lab notebooks, research proposals, presentations, papers, and skills assessed with rubrics.

Recommended Background for Success:
Prior completion of Physical Science. Students should have the ability to work independently and collaboratively. Students will have flexible time to work, but must be able to meet deadlines.

Science

SCIENTIFIC RESEARCH II (FULL-YEAR COURSE)

Hybrid Course, elective Science credit

Course #2804, S1
Course #2806, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Scientific Research #2800 and #2802 and recommendation of a Scientific Research instructor. Application process.

Course Description:
This course provides students who participated in Scientific Research the opportunity to extend their research, develop new pathways and understandings, and apply their learning in new and rigorous contexts. In addition to meeting all the requirements of Scientific Research I, students will need to enter one or more advanced competitions, engage in advanced statistical analysis using analytical software, and submit findings to a scientific journal for publication.

Instructional Methods/Assessments:
Instructional methods include lectures, video resources, discussions, reading, problem solving, hands on lab work, mentor relationships and professional networking. Assessments include quizzes, research notebooks, research proposals, presentations, papers, and skills assessed with rubrics.

Recommended Background for Success:
Successful completion of Scientific Research and teacher recommendation. Students should have the ability to work independently and collaboratively. Students will have flexible time to work, but must be able to meet deadlines.

IB BIOLOGY SL & IB BIOLOGY HL

SL Course #IB500, S1
SL Course #IB502, S2
HL Course #IB508, S1
HL Course #IB510, S2

Grade(s) offered: 11-12
Credits: 1 (Each Year)
Prerequisites: Chemistry G or Honors for IB Biology SL course; IB Biology SL for IB Biology HL course

Course Description:
IB Biology SL will concentrate on cell biology, biochemistry, DNA and biotechnology, genetics, and evolution. The pace is rigorous due to the nature of the course requirements and is best suited for the self-directed learner. During year two, HL Biology covers additional topics on biotechnology, evolution, human physiology, ecology and conservation, and botany. For required work in the SL and HL courses, students should be comfortable with independent learning, individual labs, their analytical skills in mathematics and with handling and processing lab data using Excel. The IB Biology courses are designed to meet strict curriculum requirements so students can take the IB examinations with confidence. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

TONKA ONLINE EXCEL AND STATISTICS IN BIOLOGY

Course #T220*, Tonka Online
***Select term S-summer, F=fall, W=winter**

Grades Offered: 9-12
Credits: 0.25
Prerequisites: None

Course Description:
Students in this .25 credit course will complete online study and practice learning activities related to using graphical and statistical analysis in biology in order to prepare for use of these skills as applied extensively in the lab component of MHS biology courses.

Instructional Methods/Assessments:
Videos, online study assignments and assessment practice will be used to demonstrate the graphing and statistical analysis tools and study methods used in biology. Assessment is based upon practice activities, exams, and participation in online Schoology discussion board and/or live chat forums, such as Google Hangouts on Air.

Recommended Background for Success:
Students will be expected to participate by reading and completing practice assignments and assessments. Students in this course will need to be motivated, independent learners with strong reading skills. This is a self-paced online course in which students will need to advocate for their learning needs via Schoology. Tonka Online orientation materials will be provided.

IB PHYSICS SL

Course #IB512, S1
Course #IB514, S2

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Chemistry

Course Description:
IB Physics SL teaches physics and physical measurement, mechanics, thermal physics, waves, electricity and magnetism, as well as atomic and nuclear physics. Additional topics may include mechanics extension, quantum physics and nuclear physics, and/or energy extension. Students are assessed on their understanding of concepts as well as their abilities to work within the scientific method. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB SPORTS, EXERCISE AND HEALTH SCIENCE SL

Course #IB516, S1
Course #IB518, S2
This course can also be taken as part of the VANTAGE #V200.

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Chemistry, Physical Science

Course Description:
This course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology, and nutrition that are studied in the context of sport, exercise, and health. Students will cover a range of core and option topics and carry out practical, experimental investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of internationalism and ethics by considering sport, exercise, and health relative to the individual and in a global context. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

VANTAGE: HEALTH SCIENCES

Course #V200

Grade(s) offered: 11-12
Credits: .3.0
Earning credits in AP Psychology (social studies credit), Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)
Prerequisites: Physical science; algebra; interest in healthcare or sports medicine and science; Chemistry strongly recommended. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 118

VANTAGE: GLOBAL FOOD SUSTAINABILITY: ECONOMICS AND THE ENVIRONMENT

Course #V300

Grade(s) offered: 11-12
Credits: 2.0
Earning credit for AP Environmental Science (science credit) and Global Studies & Economics (social studies credit)
Prerequisites: Biology G, AP Biology or IB Biology SL. Interest in sustainability. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 119

Social Studies

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	1900 1902	Human Geography and Civics, S1 Human Geography and Civics, S2	None None	9
.5 .5	IM108 IM110	Chinese Immersion Human Geography and Civics, S1 Chinese Immersion Human Geography and Civics, S2	Concurrent enrollment in a Chinese Immersion Language course	9
.5 .5	IM208 IM210	Spanish Immersion Human Geography and Civics, S1 Spanish Immersion Human Geography and Civics, S2	Concurrent enrollment in a Spanish Immersion Language course	9
.5 .5	AP200 AP202	AP Human Geography 9, S1 AP Human Geography 9, S2 See page 94	None None	9
.5 .5 .5 .5	2000 2004 T100* T102*	Contemporary U.S. History G, S1 Contemporary U.S. History G, S2 Contemporary U.S. History G, part 1, Tonka Online Select Term: T100S / T100F / T100W Contemporary U.S. History G, part 2, Tonka Online Select Term: T102S / T102F / T102W	Human Geography and Civics; AP Human Geography	10
.5	T130S	Pre-AP U.S. History, summer, Tonka Online	Students should be registered for AP U.S. History in the fall; optional course for preceding summer (elective credit)	10
.5 .5	AP204 AP206	AP U.S. History, S1 AP U.S. History, S2	Human Geography and Civics or AP Human Geography	10
.5 .5	2012 2013	American Studies 10 Honors, S1 American Studies 10 Honors, S2	Human Geography and Civics or AP Human Geography Concurrent enrollment in English #1009 and #1010 required	10
.5 .5 .5 .5	2100 2102 T116* T118*	World History G, S1 World History G, S2 World History G, part 1, Tonka Online Select Term: T116S / T116F / T116W World History G, part 2, Tonka Online Select Term: T118S / T118F / T118W	Contemporary U.S. History; AP U.S. History; American Studies 10 Honors.	11
.5 .5	T120* T122*	AP World History, part 1, Tonka Online Select Term: T120S / T120F / T120W AP World History, part 2, Tonka Online Select Term: T122S / T122F / T122W	Contemporary U.S. History, AP U.S. History, American Studies 10 Honors (grade B or better)	11-12
.5 .5	AP208 AP210	AP European History, S1 AP European History, S2	Contemporary U.S. History, AP U.S. History; American Studies 10 Honors (B or better)	11
.5	AP212	AP Human Geography (one-semester course) See page 94	None. Not for students who have already taken Human Geography and Civics or AP Human Geography 9	11-12
.5	AP214	AP U.S. Government and Politics	None	11-12
.5 .5	AP216 T140*	AP Comparative Government AP Comparative Government, Tonka Online Select Term: T140S / T140F / T140W	None	11-12
.5	2203	Global Studies and Economics G	None	11-12
.5	AP218 T136*	AP Macroeconomics AP Macroeconomics, Tonka Online Select Term: T136S / T136F / T136W	None. This course may also be taken in VANTAGE #V102.	11-12
.5	2220	Psychology G**	None	11-12

This logo denotes Tonka Online courses. * For all Tonka Online courses, indicate the term you are selecting by adding an S-summer, F-fall or W-winter term. When registering for two-semester courses, complete part 1 before taking part 2. ** *Psychology G or Sociology G can be taken in addition to 3.5 but will not fulfill graduation requirements for Social Studies.*

Social Studies

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	AP220 T108*	AP Psychology AP Psychology, Tonka Online Select Term: T108S / T108F / T108W	None. This course may also be taken in VANTAGE #V200.	11-12
.5	AP222	AP Psychology - Hybrid Course	None	11-12
.5	2224	Sociology G**	None	11-12
.5 .5	IB400 IB402	IB History of Europe HL Year 1, S1 IB History of Europe HL Year 1, S2	American Studies 10 Honors, AP U.S. History or Contemporary U.S. History	11
.5 .5	IB404 IB406	IB History of Europe HL Year 2, S1 IB History of Europe HL Year 2, S2	IB History of Europe Year 1	12
.5 .5	IB408 IB410	IB Psychology SL, S1 IB Psychology SL, S2	None	11-12
.5 .5	IB412 IB414	IB Economics SL, S1 IB Economics SL, S2	None	11-12
3.0	V102	VANTAGE: Business in a Global Economy: Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL (elective credit) (IB Business Management HL is an option with consent of the instructor)	Interest in global business; Application process	11-12
3.0	V200	VANTAGE: Health Sciences: Earning credits in AP Psychology (social studies credit), Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)	Physical Science and Algebra; Chemistry is strongly recommended; interest in health sciences or sports medicine, application process.	11-12
2.0	V300	VANTAGE: Global Food Sustainability: Economics and the Environment earning credit for AP Environmental Science (science credit) and Global Studies & Economics (social studies credit)	Biology G, AP Biology or IB Biology SL Interest in sustainability Application process	11-12

**3.0 credits must follow the grade 9-11 sequence; .5 credits must be in either the grade 12 Global Studies/Economics G course or an elective AP or IB course.*
***Psychology G or Sociology G can be taken in addition to 3.5 but will not fulfill your graduation requirements for Social Studies.*

HUMAN GEOGRAPHY AND CIVICS

Course #1900, S1
Course #1902, S2
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This two-semester sequence of courses includes the study of the foundation and principles of United States government and citizenship. In addition the course will include an introduction to the study of human geography which is the study of humans and their interaction with their surroundings. Using global examples, students will study topics such as population, the political organization of space, agriculture, development, culture. Maps will be frequently used to study various regions at different scales.

Instructional Methods/Assessments:
Instructional methods include small and large group discussions, simulations, primary and secondary source analysis, lectures, films and case studies. Assessments include daily work, objective and essay tests, quizzes, participation, group and independent projects, presentations and speeches.

Recommended Background for Success:
Basic knowledge of U.S. history and geography.

IMMERSION HUMAN GEOGRAPHY & CIVICS

Course #IM108, S1 Chinese
Course #IM110, S2 Chinese
Course #IM208, S1 Spanish
Course #IM210, S2 Spanish
Grade(s) offered: 9
Credits: .5 (per semester)
Prerequisites: Concurrent enrollment in an Immersion language course.

Course Description:
Taught in the target language of Spanish or Chinese, this two-semester course includes the study of the foundation and principles of United States government and citizenship. In addition the course will include an introduction to the study of human geography which is the study of humans and their interaction with their surroundings. Using global examples, students will study topics such as population, the political organization of space, agriculture, development, culture. Maps will be frequently used to study various regions at different scales.

Instructional Methods/Assessments:
Instructional methods include small and large group discussions, simulations, primary and secondary source analysis, lectures, films and case studies. Assessments include daily work, objective and essay tests, quizzes, participation, group and independent projects, presentations and speeches.

Recommended Background for Success:
Basic knowledge of U.S. history and geography.

AP HUMAN GEOGRAPHY 9

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Social Studies

CONTEMPORARY U.S. HISTORY G

Course #2000, S1
Course #2004, S2
Course #T100*, part 1, Tonka Online
Course #T102*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Human Geography and Civics; AP Human Geography

Course Description:
This two-semester course will provide a thematic study of persons, events and national developments in U.S. History with a focus on the 20th Century to the present. This course will prepare students for an understanding of the role of the U.S. in the world after WWI.

Instructional Methods/Assessments:
Students will use primary and secondary resources, be involved in discussion, oral and written presentations and participate in group activities. Assessments include projects, participation, tests, quizzes, portfolios and daily work.

Recommended Background for Success:
Basic knowledge of U.S. geography and government.

TONKA ONLINE PRE-AP U.S. HISTORY

This course completes .5 toward an elective credit

Course #T130S, summer only, Tonka Online

Grades Offered: 10
Credits: .5 (summer)
Prerequisites: Students should be registered for AP U.S. History in the fall; optional course for preceding summer.

Course Description:
Students in this 11-week summer course will complete online study and practice learning activities to prepare for the rigor and pace of Advanced Placement U.S. History. Reading assignments will come from a college-level text and supplementary readers. Students will work to become more skilled at note-taking, evaluating primary and secondary sources, taking stimulus-based exams and writing historical essays.

Instructional Methods/Assessments:
Instructional methods include readings, discussion boards, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports, and online class participation.

Recommended Background for Success:
Students should come to this course with an interest to improve their historical reading, thinking and writing skills. Students should have the ability to focus on academic pursuits in an online environment. In addition, students should have some technical proficiency and an interest in online learning.

AP UNITED STATES HISTORY

Course #AP204, S1
Course #AP206, S2

Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Human Geography and Civics; AP Human Geography

Course Description:
Students complete advanced level reading, writing, and analysis on topics in the history of the U.S. Reading assignments come from a college-level text, and students work with others to become more skilled at writing historical essays. This course emphasizes the years 1607 to 2000. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include readings, discussions, lectures, group work, debates, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports, class participation, and AP test for college credit (optional).

Recommended Background for Success:
The ability to do college-level reading is important. It is particularly recommended that students have achieved an "A" or "A-" in ninth grade social studies and have scored at least 90% on the state reading standards tests.

AMERICAN STUDIES 10 HONORS

Students must register for all four courses.
Course #1009, English, S1
Course #1010, English, S2
Course #2012, Social Studies, S1
Course #2013, Social Studies, S2

Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Human Geography and Civics or AP Human Geography

Course Description:
This honors-level interdisciplinary course, which meets across two class periods, fulfills the requirements for both 10th grade social studies and English. The course will focus on the skills and patterns of mind necessary for success in future IB and AP courses; this particular course will allow for flexible grouping, skills-based learning, team-teaching and cross-disciplinary study. The course will examine five major time periods/themes in American history and American literature. Students will read, examine, analyze, and synthesize non-fiction, fiction, and poetry as they begin to establish clear links between literary accounts and specific historical events. Students will evaluate the way different writers and historical figures attempt to reflect on, critique, or engender change in American society. Students will complete summer reading selections and assignments to be turned in on the first day of school.

Instructional Methods/Assessments:
Instructional methods include interactive discussions on readings, lecture, analysis of literature and primary source material, instruction of writing skills, essay exams and formal papers.

Recommended Background for Success:
Students should show strong reading skills and a desire to learn college-level skills. Success in the 9th grade Honors course is recommended but not necessary. Students are expected to participate regularly in class and work both collaboratively and independently. Students should be prepared to read quickly, think creatively, and manage their time effectively.

WORLD HISTORY G

Course #2100, S1
Course #2102, S2
Course T116*, part 1, Tonka Online
Course T118*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Contemporary U.S. History; AP U.S. History; American Studies 10 Honors

Course Description:
This course concentrates on the historical and geographic themes of the world from the Renaissance through the Modern World. Attention to philosophy, political science, economics, religion, and culture are part of the curriculum.

Instructional Methods/Assessments:
Map skills, note taking, evaluating information and supporting ideas are emphasized; other instructional methods include illustrated lectures, group activities, role-playing, simulation activities, reading, writing, and discussions. Assessments include daily work, tests, quizzes, and individual and group project activities.

Recommended Background for Success:
Basic reading, note taking, and writing skills.

Social Studies

TONKA ONLINE AP WORLD HISTORY

Course T120*, part 1, Tonka Online
Course T122*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grades Offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Contemporary U.S. History; AP U.S. History; American Studies 10 Honors (grade B or better)

Course Description:
Students complete advanced level reading, writing, and analysis on topics in World History. Reading assignments come from a college-level text, and students work to become more skilled at answering stimulus-based multiple choice exams and short answer questions and writing historical essays. The AP World History course begins with the period "to 600 BCE" and ends in the present day. The class is divided into manageable periods and the class will also focus on mastery of skills critical to the AP World History exam. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include readings, discussion boards, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports, online class participation, and AP World History exam for college credit (optional).

Recommended Background for Success:
Completion of AP U.S. History or American Studies 10 Honors, an interest in an in-depth, college-level course, and record of performing at an "A" or "high B" level in social studies courses.

AP EUROPEAN HISTORY

Course #AP208, S1
Course #AP210, S2

Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Contemporary U.S. History; AP U.S. History; American Studies 10 Honors (B or better)

Course Description:
This class will survey the major trends and events in European history from the Renaissance (1350) to present day. The course is structured using a collegiate model and the expectations mirror the structure. The student should be prepared to complete college level material. This class requires extensive reading, commitment and hard work the entire length of the academic year. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include interactive lectures and discussions on readings, analysis of primary source materials, and collegiate writing practice focused on historical thinking skills. Assessments include historical document based analysis, document-based and evidence based essay writing, objective exams, formal papers, and daily work.

Recommended Background for Success:
Completion of AP U.S. History or American Studies 10 Honors, an interest in an in-depth college level course, and record of performing at an "A" or high "B" level in both Social Studies and English.

AP HUMAN GEOGRAPHY (GR 9, 11-12)

Course #AP200, S1, grade 9
Course #AP202, S2, grade 9
Course #AP212, S1 OR **S2, grades 11-12**

Grade 9
Credits 1.0 (year-long course)
Prerequisites: B+ or better in 8th grade English and Social Studies

Grades 11-12
Credits .5 (taught as a one-semester course)
Prerequisites: Ability to read and write at the college level

Course Description:
Human Geography is the study of humans and their interaction with their surroundings. An emphasis on spatial concepts and landscape analysis to examine human social organization and its environmental consequences are the guiding ideas behind this course. Using global examples, students will study topics such as population, the political organization of space, agriculture, development, culture and industrial processes. Maps and spatial data will be frequently used to study various regions at difference scales. In addition, students must be willing and able to work with college-level materials.

Instructional Methods /Assessments:
Instructional methods include lecture, interactive discussion on readings and activities, individual and group case studies, research and analysis of geographical, historical and sociological course material, statistical analysis, and map work. Assessments include multiple choice exams, in-class essay exams, formal papers, individual and group projects, case studies, and geographical analysis.

Recommended Background for Success:
This course is recommended for students who are interested in pursuing AP and IB courses. Students should have a record of performing at an "A" or high "B" level in both Social Studies and English. A strong ability to read and write is beneficial.

AP U.S. GOVERNMENT AND POLITICS

Course #AP214

Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course covers a body of knowledge equivalent to what a student would be expected to master in an introductory one-semester college course in American politics. Through readings, research, discussions, field experiences, and media presentations, students will study political ideologies, parties, campaigns, elections, interest groups, bureaucracy, civil liberties, role of the media, the judicial, legislative and executive processes, and the creation of public policy. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussions, cooperative learning, library research, individual and group projects, simulations, guest speakers, videos, exposure to a variety of resources and reading materials both primary and secondary in nature, and writing assignments. Assessments include daily work, multiple choice tests, essay tests, quizzes, projects, individual and group presentations, and analytical writing assignments.

Recommended Background for Success:
This course is recommended for students who have effective study skills, the ability to read and comprehend material written on a college level, basic knowledge of U.S. history and government, the ability to work and think independently and critically, willingness to work in cooperative settings, and strong writing skills.

AP COMPARATIVE GOVERNMENT

Course #AP216
Course T140*
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This college level course analyzes the political systems of the United Kingdom, Russia, China, Mexico, Nigeria and Iran. By examining these six countries, students will develop an understanding of political concepts and themes, become proficient at comparing and contrasting different political processes and behaviors and be able to analyze and interpret current political developments in these countries. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include discussions, lecture, exposure to and assessment of current

articles and book excerpts, written activities, group work, presentations, class debate and guest speakers. Assessments include tests, quizzes, in-class written essays, case studies, formal papers, presentations and summaries of opinions on relevant articles and current issues.

Recommended Background for Success:
Students should demonstrate an ability to read college-level materials and have an interest in and desire to learn more about the global environment we now live in.

GLOBAL STUDIES AND ECONOMICS G

Course #2203
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course covers economic concepts through the prism of international issues such as: globalization, the rise of China, and the many issues involving the Middle East. Economic concepts include: Microeconomics which is the study of businesses, markets, and households; Macroeconomics which is the study of the U.S. economy and how it relates to other economies; Personal Finance where students learn skills for successful personal financial management.

Instructional Methods/Assessments:
Instructional methods include simulations, lectures, discussions, research, group projects, and written assignments. Assessments include daily work, tests, quizzes and projects.

Recommended Background for Success:
Completion of succession of required courses grades 9-11; math skill including first year Algebra.

AP MACROECONOMICS

Course #AP218

Course T136*, Tonka Online
***Select term S=summer, F=fall, W=winter**
This course may also be taken as part of VANTAGE #V102.
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Students will study economic growth, inflation, unemployment, foreign trade, monetary, and fiscal policies at a college freshman level. Lessons are designed to prepare students to take the Advanced Placement test. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lecture, class discussion, simulations, individual and group activities. A variety of assessments are employed including tests, quizzes, daily work, projects, and both individual and group activities.

Recommended Background for Success:
Students should demonstrate an ability to read college-level material, do basic math skills and express thoughts.

PSYCHOLOGY G

Course #2220
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None
**This course does not fulfill your 3.5 credits in Social Studies but may be taken as an elective in addition to your required coursework.*

Course Description:
Psychology is the study of behavior and mental process. Topics include the brain's influence/control of everyday activity, sleep and dreams, human development, learning and thinking, psychological disorders, relationships, and the influence of social settings on behavior. The student will become actively involved in an introductory study of the field of psychology.

Instructional Methods/Assessments:
Instructional methods include discussions, group activities, lectures, case studies, video, experiments, and labs. Assessments include class notebooks, labs, notes, exams and class activities.

Recommended Background for Success:
Students' observations about people will be the most helpful knowledge to bring with them.

AP PSYCHOLOGY

Course #AP220

Course #T108*, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2**
This course may also be taken as part of VANTAGE #V200.
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This AP class is an introduction to college-level Psychology using a college text, "collegiate-style" pace and classroom climate, and college-level exams. Psychology is the study of behavior and mental process. Topics include the brain's influence/control of everyday activity, sleep and dreams, human development, learning and thinking, psychological disorders, relationships, and the influence of social settings on behavior. The student will become actively involved in an introductory study of the field of psychology. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lectures, discussions, class demonstrations, group activities, case studies, videos, experiments, labs, and focus projects. Assessments include focus projects, exams (objective and essay) and test corrections activities.

Recommended Background for Success:
Students should have strong reading and study skills.

AP PSYCHOLOGY HYBRID

Hybrid Course
Course #AP222
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Same as the above AP Psychology course.

Instructional Methods/Assessments:
The basic instructional structure will combine in-class elements with online learning modules. The classroom methodology will focus on discussion, demonstrations, group activities, experiments and projects. Students will use online tools through Schoology to access lectures, discussion boards, collaborative projects, research and reflection journals. Assessments will vary between in-class and online platforms based on the purpose of each. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Recommended Background for Success:
Students should be strong readers and have the ability to focus on academic pursuits in an online environment. In addition, students should have some technical proficiencies and an interest in online learning.

SOCIOLOGY G

Course #2224
Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None
**This course does not fulfill your 3.5 credits in Social Studies but may be taken as an elective in addition to your required coursework.*

Course Description:
Sociology is the study of humans and their behavior in groups. Through readings, individual research, speakers, discussions, and audiovisual presentations, students will study culture, change, relationships, socialization, and social organization. Social institutions such as religion, government, family, and education will be investigated. Social problems such as population, cities, changing family patterns and sex roles, delinquency and crime, poverty, and health will be important parts of this course.

Instructional Methods/Assessments:
Instructional methods include lectures, research, and discussions. Assessments include class participation, daily work, quizzes and tests.

Recommended Background for Success:
Students should have an understanding of American History.

Social Studies

IB HISTORY OF EUROPE HL

Course #IB400, Year 1, S1
Course #IB402, Year 1, S2
Course #IB404, Year 2, S1
Course #IB406, Year 2, S2

Grade(s) offered: 11-12
Credits: 2.0 (two-year course)
Prerequisites: AP U.S. History, Contemporary U.S. History, American Studies 10 Honors

Course Description:
This course is a two-year introduction to contemporary world history. The first year of the course begins with units that include the Industrial Revolution in Britain, Europe, and Japan as well as a study of Imperial Russia, revolutions and the emergence of the Soviet State. In addition, the course will also address the effect of the First World War, Weimar Germany, and the rise of Hitler, Mussolini and Stalin. The senior year begins with units on the Spanish Civil War, the study of Japanese, German, and Italian expansion leading up to World War II, as well as a study of World War II itself. These units are followed by post- WWII studies of Japan and China, The course is reading and writing-intensive, with an emphasis on discussion and inquiry. While the main focus is on modern European history, the course will also take a broader, more international approach to world history topics, including the origins and effects of industrialization and the rise and rule of single-party states. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include interactive discussions on readings, lectures, analysis of literature and primary source material, instruction of writing skills, essay exams and formal papers.

Recommended Background for Success:
Students should show strong reading skills and a desire to learn college-level skills.

IB PSYCHOLOGY SL

Course #IB408, S1
Course #IB410, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: None

Course Description:
IB psychology examines the interaction of biological, cognitive and sociocultural influences on human behavior. Students in IB Psychology will develop an understanding of how psychological knowledge is generated, developed and applied. IB Psychology will help students achieve a greater understanding of themselves and an appreciation for the diversity of human behavior. Students will develop critical analysis skills through examination of ethical concerns raised by the methodology and application of psychological research. The students will be engaged in a variety of practical activities including observations, experiments and interviews. There is an emphasis on writing as a way of thinking. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include interactive analysis and discussion of readings and psychology studies, the replication of a classic experimental study from psychology, instruction of writing skills, essay exams and formal papers.

Recommended Background for Success:
Students should show strong reading skills and a desire to learn college-level skills.

IB ECONOMICS SL

Course #IB412, S1
Course #IB414, S2

Grade(s) offered: 11-12
Credits: 1 (year-long course)
Prerequisites: None

Course Description:
This one-year course covers macroeconomics and microeconomics as well as development and international economics. Working within the fundamental principles of scarcity and choice, students will develop an understanding of how economic theory affects U.S. all in our personal, business and global environments. By the completion of this course, students will be able to evaluate, explain and critique a wide variety of economic topics such as fiscal policy, the business cycle, Keynesianism and monetarism, protectionism and free trade, models for countries' economic growth, and pricing policy. Students who will thrive in this course will have an ability to understand and evaluate abstract concepts; will be capable of analyzing, criticizing and debating current world issues; and will enjoy a discussion/debate oriented class environment. Students will also be prepared to take both the AP Macroeconomics and Microeconomics exams if they choose. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include interactive discussions about global issues and economic models, instruction of writing and analysis skills necessary for success in the course.

Recommended Background for Success:
Students should show strong reading skills and a desire to learn college-level skills.

VANTAGE: BUSINESS IN A GLOBAL ECONOMY

Course #V102

Grade(s) offered: 11-12
Credits: 3.0
Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL (elective credit)
Prerequisites: Interest in global business; application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 117

VANTAGE: HEALTH SCIENCES

Course #V200

Grade(s) offered: 11-12
Credits: 3.0
Earning credits in AP Psychology (social studies credit), Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)
Prerequisites: Physical science; algebra; interest in healthcare or sports medicine and science; Chemistry strongly recommended. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 118

VANTAGE: GLOBAL FOOD SUSTAINABILITY: ECONOMICS AND THE ENVIRONMENT

Course #V300

Grade(s) offered: 11-12
Credits: 2.0
Earning credit for AP Environmental Science (science credit) and Global Studies & Economics (social studies credit)
Prerequisites: Biology G, AP Biology or IB Biology SL. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 119

Study Skills

Developing good study habits is crucial to student success. Minnetonka High School offers one elective class that focuses specifically on study skills. There are two additional courses offered through the English department that teach freshmen effective study skills for high school and upperclassman effective study skills for post-secondary classes.

STUDY SKILLS

Elective Option

Course:	**#1017, S1, 9-10** **#1018, S2, 9-10** **#1019, S1, 11-12 - Zero Hour** **#1020, S2, 11-12 - Zero Hour**
Credits:	.25 semester credits for grades 11-12 (class meets twice per week) .5 semester credits for grades 9-10 (class meets daily)
Grading:	Pass/Fail
Prerequisites:	Counselor referral along with medical diagnosis of AD/HD or ADD

Course Description:

This class is designed to provide students with AD/HD an expanded set of skills and strategies to increase their abilities in organization, time management, studying, test taking, reading, writing self-awareness and self-advocacy. All of the above areas are common deficits for students with AD/HD.

Instructional Methods and Assessments:

Instructional methods include lecture, discussion, group exercises, application activities and problem solving activities. Students will be assessed on participation, daily work, projects, and demonstration/application of the skills/strategies to their overall MHS coursework.

Recommended Background for Success:

Students must be motivated and willing to improve their organization, time management, studying, test taking, reading, writing, self-awareness and self-advocacy skills. The successful student must also be willing to use the learned skills in the coursework that is required for all of his/her classes.

Technology Education

Changing technology has created a growing need for people with experience and education in technical career fields. Many employers are experiencing shortages of highly trained technical people. Whether students are planning to go to college, technical college, or into employment right after high school, they will gain valuable information and technology skills. Careers of today require strong academic and technical preparation. By carefully planning course selection, students will improve their employment opportunities. Various student fees are part of Technology Education courses.

Minnetonka High School has been certified by Project Lead the Way. This pre-engineering program is highly respected by universities and provides future engineering and architecture majors the opportunity to earn college credit at Minnesota universities. Visit www.mnpltw.org for more information.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
ARCHITECTURE AND ENGINEERING				
.5	4600	Introduction to Drafting	None	9-12
.5 .5	4604 4606	Civil Engineering and Architecture, S1 Civil Engineering and Architecture, S2	None Completion of Civil Engineering and Arch- S1	10-12
.5 .5	4608 4609	Introduction to Engineering Design, S1 Introduction to Engineering Design, S2	None Completion of Introduction to Engineering Design - S1	9-12 9-12
.5 .5	4610 4611	Principles of Engineering, S1 Principles of Engineering, S2	None Completion of Principles of Engineering - S1	10-12 10-12
.5 .5	4612 4613	Architectural Drafting/Design, S1 Architectural Drafting/Design, S2	None None	10-12 10-12
.5	4616	Advanced Architectural Design	Architectural Drafting/Design	11-12
.5	4618	Advanced Engineering Design	Introduction to Engineering Design or Principles of Engineering	11-12
GRAPHIC ARTS AND DESIGN				
.5	4624	Home Renovation and Maintenance	None	9-12
.5	4644	Graphic Arts	None	9-12
.5	4654	Graphic Design	None	10-12
.5	4656	Airbrush I	None	9-12
.5	4657	Airbrush II	.5 credit in Airbrush I	10-12
.5	4658	Video Game Design	None	9-12
.5	4659	Advanced Video Game Design	Video Game Design	10-12
.5	4660	Mobile App Design	None	9-12
METALS AND WOODS TECHNOLOGY				
.5	4668	Metals I Manufacturing	None	9-12
.5	4672	Power and Energy I	None	9-12
.5	4674	Power and Energy II	Power and Energy I	10-12
.5 .5	4676 4677	Metals II Manufacturing - S1 Metals II Manufacturing - S2	None	10-12 10-12
.5 .5	4678 4679	Metals III Engineering - S1 Metals III Engineering - S2	Metals II	11-12 11-12
.5	4682	Woodworking	None	9-12
.5	4686	Experimental Woodworking	Woodworking	10-12
.5	4688	Advanced Woodworking	Experimental Woodworking	10-12

This logo denotes Project Lead the Way courses.

Technology Education

INTRODUCTION TO DRAFTING

Course #4600

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This is an exploratory course open to all students seeking an introductory experience in architecture or engineering. This course features classroom work in mechanical and architectural drafting. The mechanical drafting segment involves AutoCAD and Inventor units, drafting, sketching, line weights, lettering, multi-view and dimensioning techniques. The architectural segment will focus on the theory of residential design, floor plan drafting and model design using Autodesk Revit design software.

Instructional Methods/Assessments:
Instructional methods include entry-level use of AutoCAD, Inventor and Revit to complete problem-solving activities involving engineering and architectural applications along with lectures supported by videos and demonstrations. Assessments include drafting applications, classroom assignments, quizzes, tests and projects.

Recommended Background for Success:
Students should be interested in engineering or architectural design and have basic computer, math and problem-solving skills.

CIVIL ENGINEERING AND ARCHITECTURE

Course #4604
Course #4606

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This Project Lead the Way course provides an overview of the many fields of Civil Engineering and Architecture. Students use state-of the-art software to solve real-world problems, and to develop solutions to hands-on projects and activities. The major focus of the course is a long-term project that involves the development of a local property site. As students learn about various aspects of civil engineering and architecture, they will apply what they learn to the design and development of this property. The course covers the following: the roles of civil engineers and architects; project planning; site planning; building design; and project documentation and presentation. Students will use Revit, a state-of the-art 3-D design software package, to help design solutions for major course projects. Working in teams, students will learn about documenting projects, solving problems, and communicating solutions to other students and to members of the professional community of civil engineering and architecture. College credit is available; see www.mnpltw.org for more info.

Instructional Methods/Assessments:
This course will have significant use of Revit architectural design software for the civil engineering design problems. Assessments include Revit design projects, quizzes, tests, and advanced site design projects. There is a college level assessment that will demonstrate student's proficiency for college credit.

Recommended for Success:
Students should be interested in civil engineering and architectural design and have strong math and problem solving skills.

INTRODUCTION TO ENGINEERING DESIGN

This course completes .5 towards the Arts Credit

Course #4608, S1
Course #4609, S2

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This **Project Lead the Way** course explores the areas of engineering, through a hands-on, real-world problem-solving approach to learning. Students use a 3D modeling software to help them design solutions to proposed problems by documenting their work using an engineer's notebook, and communicate their solutions

Technology Education

to peers and members of the professional community. Students will learn through activates, projects, group learning and problem solving. Students learn firsthand how engineers and technicians use math, science, and technology in an engineering design process and its applications. This course appeals to prospective engineering students and offers the design tools and experiences they will see in a college engineering program. **College credit is available; visit www.mnpltw.org.**

Instructional Methods/Assessments:
This course will have extensive use of inventor 3-D computer modeling software, to complete real-world problem solving activities, involving engineering challenges and projects. Assessments include Inventor projects, quizzes, tests, and advanced design challenges. There is a college level assessment that will demonstrate student's proficiency for college credit.

Recommended for Success:
Students should be interested in engineering and design and have strong math and problem-solving skills.

PRINCIPLES OF ENGINEERING

Course #4610, S1
Course #4611, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This **Project Lead the Way** course will give students the major concepts they'll encounter in a post-secondary engineering course of study. Topics include robotics, mechanisms, energy, statics, materials, and kinematics. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various engineering design problems, document their work, and communicate solutions. **College credit is available; see www.mnpltw.org for more info.**

Instructional Methods Assessments:
Instructional methods include lectures supported by videos and demonstrations. Students will use Autodesk Inventor computer software for design challenges as well as Vex engineering / robotic components for hands-on projects. Assessments include engineering design solutions, classroom assignments, quizzes, tests and design projects. It is expected that students taking this course will take the PLTW exam for college credit.

Recommended for Success:
Students should be interested in engineering and design, and have strong math and problem-solving skills.

ARCHITECTURAL DRAFTING/DESIGN

Course #4612, S1
Course #4613, S2
This course completes .5 towards the Arts credit
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This course instructs students in architectural design trends giving them a practical, hands-on experience in structural design, interior design, and floor planning. The students have an opportunity to design their own homes with complete drawings necessary to actually construct a house. Students will have an opportunity to build models of their own structural and home designs. This course provides technical activities very beneficial to students planning careers as architects, interior designers, building contractors and architectural drafting persons.

Instructional Methods/Assessments:
Instructional methods include significant use of AutoCAD and Revit Architecture to complete problem-solving activities involving architectural problems along with lectures supported by videos, demonstrations, design, research, guest speakers and possible field studies. Assessments include daily drafting applications, classroom assignments, quizzes, tests, projects, models, portfolios and presentations.

Recommended Background for Success:
Students must have basic computer, math, and problem-solving skills.

ADVANCED ARCHITECTURAL DESIGN

Course #4616
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Architectural Drafting/ Design

Course Description:
This course is appropriate to students seeking a continuing advanced level experience in Architectural Design. This course features classroom work with advanced software such as Revit and 3D Studio Max. The architectural drafting units will focus on individual needs and interests in the development of a college portfolio for schools of architecture. Theory of commercial design, advanced construction documents, advanced drawing techniques, and model building will be units of focus.

Instructional Methods/Assessments:
Instructional methods include advanced-level use of AutoCAD, Revit and 3D Studio Max to complete problem solving activities involving Architectural problems along with lectures supported by videos and demonstrations. Assessments include daily drafting applications, classroom assignments, quizzes, tests and projects (possible models).

Recommended Background for Success:
Students should have basic AutoCAD computer skills, basic math skills and problem-solving concepts.

ADVANCED ENGINEERING DESIGN

Course #4618
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Introduction to Engineering Design or Principles of Engineering

Course Description:
This course is appropriate for students seeking a continuing advanced level experience in Engineering Design. This course features classroom work with advanced software such as Autodesk Inventor and 3D Studio Max. The Engineering Design units will focus on advanced problem solving and animation. Emphasis in the course is placed on individual student's needs and interests in development of a college portfolio for career paths in Engineering. The principles of Mechanical Design and Robotics design will be units of focus.

Instructional Methods/Assessments:
Instructional methods include advanced-level use of AutoCAD, Autodesk Advanced Inventor and 3D Studio Max to complete problem solving activities involving Engineering Design problems along with lectures supported by videos and demonstrations. Assessments include daily drafting applications, classroom assignments, quizzes, tests and projects (possible models).

Recommended Background for Success:
Students should have basic AutoCAD and Inventor computer skills, basic math skills and problem-solving concepts.

HOME RENOVATION AND MAINTENANCE

Course #4624
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Home Renovation and Maintenance provides students with an opportunity to explore the many different areas that relate to planning and completing home renovation projects and other simple maintenance. This project-based course will help students develop advanced problem solving skills as they relate to a home. This course will allow students to develop essential life skills that will help make them self-reliant in updating and maintaining their future homes. In this course, students will learn and practice many different home renovation and repair procedures and techniques. These can include planning the renovation or interior design, painting, drywall

work, electrical, tiling, etc. A unit during this class will use Chief architect and other apps to complete renovation and interior design plan. There will also be an opportunity for students to design and create projects in class similar to those found on Internet sites such as Pinterest, Etsy, etc. These projects could include creating custom art and wall hangings, furniture upholstery or refinishing, etc.

Instructional Methods/Assessments:
Instructional methods include lecture, demonstration, guest speakers, and instructional videos. Assessments include evaluation of projects built in class, tests and quizzes.

Recommended Background for Success:
Interest in home renovation and maintenance.

GRAPHIC ARTS

Course #4644

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This is an exploratory course open to all students seeking an introductory experience in Graphic Arts. Students with an interest in art who enjoy drawing, coloring, photography, or computers and mechanical drawings will find a wide variety of lab activities to enjoy. Products will include measurement/layout design, model making, airbrush painting, Inventor 3D modeling program, Photoshop, digital photography, as well as many other interesting activities. This is a good overview of a number of rapidly growing career fields.

Instructional Methods/Assessments:
Instructional methods include mostly "hands-on" lab activities and problem solving with some textbook, lectures, and demonstrations included. Assessments include daily lab activities, creative products, tests and quizzes.

GRAPHIC DESIGN

Course #4654

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students will make use of artistic and creative ability in the production of a wide variety of interesting products. Hands-on experience and computer operation are a fun and challenging part of this course. Students will learn the design process and apply it to everything that we do in class. This course gives students the chance to learn about an important career field while having "fun" producing their own products for themselves, family or friends.

Instructional Methods/Assessments:
Instructional methods include mostly hands-on lab activities and problem solving with some textbook, lectures, and demonstrations included. Assessments include daily lab activities, creative products, tests, and quizzes.

AIRBRUSH I

Course #4656

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This course will help students learn airbrush techniques that will expand their artistic expression and bring professionalism to their graphic products. Students will study the history of airbrushing, elements of art and principles of design. In addition, students will create exciting airbrush designs on products including: T-shirts, other clothing, cards, posters and many other items. Computer imaging will be used to develop or enhance their creative experience, which can translate to a hobby or future graphic arts and design careers.

Instructional Methods/Assessments:
Instructional methods include mostly hands-on lab activities and problem solving with some textbook, lecture and demonstrations included. Assessments include daily lab activities, creative products, tests, and quizzes.

AIRBRUSH II

Course #4657

This course completes .5 towards the Arts credit

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: .5 credit in Airbrush I

Course Description:
This course will allow students to take what they have learned in Airbrush I to a new level. While in Airbrush II, students will have the opportunity to refresh their skills then move into more free hand painting with the airbrush. Students will learn to paint on different materials as well as learning how to write with the airbrush. Some time will be devoted to independent projects that students will create on their own.

Instructional Methods/Assessments:
Instructional methods include mostly hands on lab activities and problem solving. There will be some lectures, daily assignments, performance quizzes, as well as written quizzes and a final. Demonstrations from the instructor and on video will also be used.

VIDEO GAME DESIGN

Course #4658

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
In this project-based course, students will develop working computer games using Game Maker. Students are introduced to the fundamental principles of game design and development using an object oriented language. The content includes practical experiences in conceptualization, storyboarding, development methodologies, color theory, the use of math and physics in video games, audio/sound effects design, graphic design and animation, and implementation. Students will also research careers in the gaming industry.

Instructional Methods/Assessments:
Instructional methods include entry-level use of Game Maker software, to design, develop, and edit class video games. The class will also include classroom assignments, quizzes, tests and projects related to the video game industry.

Recommended Background for Success:
Students should be interested in video game design and have basic computer, math and problem-solving skills.

ADVANCED VIDEO GAME DESIGN

Course #4659

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Video Game Design

Course Description:
The GAME: IT Advanced course is an introduction to C#programming and game development with XNA game studio. The first half of the course involves learning core C#programming skills by programming within console applications. Console applications are an easy and excellent way to learn C#and become familiar with Visual C#Express features and tools. In the second half of the course, the student eases into XNA game development by starting with a simple bouncing ball project. The core XNA game development concepts are learned and applied through experimenting with a few different physics concepts. The final part of the course is the RPG game project. This is the heart of the course and all the information and skills that have been learned up to this point prepare the student for the complexity of the RPG game code.

Instructional Methods/Assessments:
Instructional methods include entry-level use of Game Maker software, to design, develop, and edit class video games. The class will also include classroom assignments, quizzes, tests and projects related to the video game industry.

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Recommend Background for Success:
Students should be interested in video game design and have basic computer, math and problem-solving skills.

MOBILE APP DESIGN

Course #4660
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Mobile App Design is an introductory mobile application design & programming course using Java and Eclipse for Android devices. The course starts by taking students through the history of mobile applications. Then we move on to learning about the current industry standards, languages and platforms used in mobile apps development with a special focus on career opportunities within the industry and the entrepreneurial potential that exists. The "meat" of the course is spent learning some basic Java programming and then on to working with Eclipse in order to start developing real working apps. Those lessons and skills are then applied toward programming for Android devices. By the end of the course students are able to successfully download real working mobile applications for Android devices.

Instructional Methods/Assessments:
Instructional methods include entry-level use of Game Maker software, to design, develop, and edit class video games. The class will also include classroom assignments, quizzes, tests and projects related to the video game industry.

Recommend Background for Success:
Students should be interested in mobile/application design and have basic computer, math and problem-solving skills.

METALS I MANUFACTURING

Course #4668
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Metalworking is an exciting and challenging introductory course to the world of metals manufacturing. The lab is filled with equipment, some of which students may have used before, like the drill press or disc sander. A majority of the equipment is going to look new and unfamiliar. By the time students complete the course, they will have completed class projects using just about everything they see in the lab including our new CNC (Computer Numerical Controlled) milling machines and lathes. The projects students make in class will use two kinds of welding, sheet metal, a variety of machining, and foundry (the pouring of molten metal). Each student leaves the class with four projects, plus one of his or her design.

Instructional Methods/Assessments:
Instructional methods include demonstrations of machines, equipment, student lab activities, quizzes, and evaluation of student projects. Assessments include evaluation of projects, demonstrated safety, tests and quizzes.

Recommended Background for Success:
Students should understand basic math, seek help when needed, and manage time well.

POWER AND ENERGY I

Course #4672
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
ATVs, dirt bikes, go-karts, lawn mowers, and mini bikes: if you use any of these, then you should be in this course. In the power part of the course, each student completes a total overhaul of a small 4 stroke/cycle engine. Students will have the confidence and understanding of basic engine functions, carburation, and ignition so they can work on their own small engines at home. Each year we have team competition in class where the goal is to disassemble and put together an engine in less than one hour. We also study energy and the role it plays in our lifetime.

Instructional Methods/Assessments:
Instructional methods include demonstrations, experimentation, simulations, and video presentations. Assessments include engine evaluation after overhaul by student, parts identification test and quizzes.

POWER AND ENERGY II

Course #4674
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Power and Energy I

Course Description:
The first small engines course provided students with the basics of small 4-stroke/cycle trouble-shooting and overhaul. The time constraints left very little time for 2 stroke/cycle engines. This course will provide students with the time, equipment, and facilities to work on a variety of small engine users like personal watercraft, small motorcycles, ATVs etc. Students will bring their recreational vehicles in and learn how to work on them with confidence. Students have the foundation from the first course, and now they will be able to apply it to a variety of individual and group projects. Supermilers and solar boaters will benefit from this course. Minnesota is the home of several large manufacturers of industrial and recreational equipment, and careers in the recreational market are abundant. Entry level Technical College credit is available through articulation agreements we have with Hennepin Technical College.

Instructional Methods/Assessments:
Instructional methods include dealer, owner and factory manuals, computer programs, CDs, master part catalogs, OEM catalogs, and microfiche. Assessments include individual and group projects, tests and quizzes.

Recommended Background for Success:
Any experience using hand, or power tools and equipment would be helpful. Computer skills are helpful in research and in utilizing the computer driven machines in the lab.

METALS II MANUFACTURING

Course #4676 , S1
Course #4677, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This course focuses on precision metals manufacturing through lab activities using a wide variety of hot and cold metal forming and fabricating equipment. Students will use the MIG, TIG, AC and DC arc, oxy/acetylene welding processes, and foundry for pouring aluminum and brass castings at temperatures up to 2000 degrees. Students will face, drill, ream, bore, knurl, and grind a variety of metals using standard and computer numerical controlled mills, lathes, and surface grinders. Our highly successful MHS Super mileage team members typically come with experience from this course. Careers in precision manufacturing are among the highest of any career in lifetime earnings, and there continues to be a shortage of employees in these fields.

Instructional Methods/Assessments:
Instructional methods include dealer, owner, and factory manuals, OEM computer programs, CDs, master parts catalogs, OEM catalogs, and microfiche. Assessments include individual and group projects, tests and quizzes.

Recommended Background for Success:
Any experience using hand, or power tools and equipment would be helpful. Computer skills are helpful in researching and in utilizing the computer driven machines in the lab.

METALS III ENGINEERING

Course #4678, S1
Course #4679, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Metals II

Course Description:
Students will experience advanced applications of precision manufacturing using a variety of materials and processes. Students will have the latest precision manufacturing technology available to use. Our tech lab provides CNC (computer numerical control) milling, turning,

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and plotters for our CAD programs. Students also participate with their projects at local and state competitions. This course is designed for students who are interested in challenging themselves in the areas of design fabrication, creativity, and team building while developing projects for state competitions. Metals 3 students usually provide leadership for the highly successful MHS Supermileage teams.

Instructional Methods/Assessments:
Instructional methods include demonstrations, lectures, field trips, individual and team problem analysis. Assessments include product assignments, problem assignments, tests, quizzes and demonstrations.

Recommended Background for Success
Manufacturing experience gained through outside employment or experience will be helpful.

WOODWORKING

Course #4682

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students can make jewelry boxes, furniture for their room, while learning the basic skills of working with woodworking tools, machines, and materials. Projects are selected and designed by the students. Skills developed in this course will be used at home, in their hobbies, and careers. There is great satisfaction in saying, 'I made it myself.'

Instructional Methods/Assessments:
Instructional methods include lecture, demonstration, guest speakers, field trips, and instructional videos. Assessments include evaluation of projects built in class, tests and quizzes.

Recommended Background for Success
Seventh grade Technology Education experience using machines will be helpful.

EXPERIMENTAL WOODWORKING

Course #4686

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Woodworking

Course Description:
Students have the opportunity to make a variety of projects that are unique and personalized. Some of the new processes students will experience include the steam bending of wood, green wood turning, stabilization, veneer lamination, and advanced problems in wood lathe turning. Student projects included lamps, bowls, water skis, snowshoes and toboggans.

Instructional Methods/Assessments:
Instructional methods include resource research, demonstration, Internet research, and group problem solving. Assessments include evaluation of unique design problems and their solutions, tests and quizzes.

Recommended Background for Success
Any previous machine woodworking experience would be helpful.

ADVANCED WOODWORKING

Course #4688

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Experimental Woodworking

Course Description:
This course is designed for the most advanced woodworking student. New process will focus on a variety of lathe and joinery work. Student projects will be unique and personalized; past examples being tables and cabinetry.

Instructional Methods/Assessments:
Instructional methods include resource research, demonstrations, collaborative projects, discussion and lecture. Assessments will focus on the unique design problems and their solutions through tests and quizzes.

Recommended Background for Success
Students should have a background and interest in improving their woodworking skills.

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CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
ART				
	Summer / Fall / Winter			
.5	NA / T800F / NA	AP Art History	None	10-12
.5	T802S / T802F / T802W	Digital Photography	None	9-12
.5	T804S / T804F / T804W	Drawing	None	9-12
COMPUTER SCIENCE				
.5	T960S / NA / NA	Introduction to Computer Science, summer only	Algebra	9-12
.5 .5	T966S / T966F / T966W T967S / T967F / T967W	AP Computer Science Principles, part 1 AP Computer Science Principles, part 2	C or better in Algebra; Introduction to Computer Science is recommended but not required	9-12
ENGLISH				
.5 .5	NA / T702F / T702W NA / T703F / T703W	English 11, part 1 English 11, part 2	English 10	11
.5	T700S / T700F / T700W	English 12	English 11	12
.5	T704S / T704F / T704W	AP Language & Composition 12	English 11	12
FAMILY AND CONSUMER SCIENCES				
.5	T900S/ T900F /T900W	Independent Living	None	11-12
MATH				
.5 .5	T300S / T300F / T300W T302S / T302F / T302W	Quadratic Algebra, Part 1 Quadratic Algebra, Part 2	C or Better in Algebra of Lines, or teacher recommendation. Complete part 1 before part 2.	9-12
.5 .5	T304S / T304F / T304W T306S / T306F / T306W	Geometry, Part 1 Geometry, Part 2	Successful completion of Quadratic Algebra or 8th grade Algebra. Complete part 1 before part 2.	9-12
.5 .5	T308S / T308F / T308W T310S / T310F / T310W	Higher Algebra, Part 1 Higher Algebra, Part 2	Successful completion of Geometry or teacher recommendation. Complete part 1 before part 2.	9-12
.5 .5 .5	T350S / T350F / T350W T352S / T352F / T352W	Higher Algebra Honors, Part 1 Higher Algebra Honors, Part 2	B or better in Geometry Honors, B+ or better in Geometry, or teacher recommendation. Complete part 1 before part 2.	9-12
.5 .5 .5	T334S / T334F / T334W T336S / T336F / T336W	Functions, Statistics and Trigonometry, Part 1 Functions, Statistics and Trigonometry, Part 2	Successful completion of Higher Algebra. Complete part 1 before part 2.	9-12
.5	T341S / NA / NA	Functions, Statistics and Trigonometry (AP Statistics Prep), summer only	Successful completion of Higher Algebra.	10-12
.5	T345S / NA / NA	Functions, Statistics and Trigonometry (Precalculus Prep), summer only	Successful completion of Higher Algebra.	9-12
.5 .5 .5	T312S / T312F / T312W T314S / T314F / T314W	Precalculus Honors, Part 1 Precalculus Honors, Part 2	B or better in Higher Algebra Honors, B+ or better in Higher Algebra, or teacher recommendation. Complete part 1 before part 2.	9-12
N/A	T316S / NA / NA	AP Calculus Prep, summer only	Completion of Precalculus	9-12
.5 .5	T354S / T354F / T354W T356S / T356F / T356W	AP Statistics, Part 1 AP Statistics, Part 2	Successful completion of Math Studies, Functions, Stats & Trig, Precalculus or teacher recommendation. Complete part 1 before part 2.	10-12
MUSIC				
.5	T600S / T600F / T600W	American Popular Music	An interest in music	9-12
PHYSICAL EDUCATION				
.5	T500S / T500F / T500W	Fitness A	None	9-12
.5	T502S / T502F / T502W	Wellness Program B	None	9-12

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CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
SCIENCE				
.5 .5	T200S / T200F/ T200W T202S / T202F / T202W	AP Environmental Science, Part 1 AP Environmental Science, Part 2	Chemistry, Physical Science.	11-12
.5 .5	T204S / T204F / T204W T205S / T205F / T205W	Physics G, part 1 Physics G, part 2	Physical Science G or Honors	11-12
.5	NA / NA / T208W	AP Physics C-Mechanics, winter only	Have completed or be enrolled in both AP Physics 1 AND a calculus course before or while taking AP Physics C-Mechanics Online.	10-12
.5	T213S / NA / NA	Pre-AP Chemistry, summer only	Students should be registered for AP Chemistry in the fall; optional course for preceding summer, elective credit	
.5 .5	T214S / T214F / T214W T215S / T215F / T215W	Chemistry Honors, Part 1 Chemistry Honors, Part 2	A or B in Physical Science Honors, A in General Physical Science, Instructor recommendation encouraged	9-12
.5 .5	T222S / T222F / T222W T223S / T223F / T223W	Biology G, Part 1 Biology G, Part 2	Physical Science, Chemistry	11-12
.5	T217S / NA / NA	Pre-AP Biology, summer only	Students should be registered for AP Biology in the fall; optional course for preceding summer, elective credit	10-11
.5	T220S / T220F / T220W	Excel and Statistics in Biology	None	9-12
SOCIAL STUDIES				
.5 .5	T100S / T100F / T100W T102S / T102F / T102W	Contemporary U.S. History G, Part 1 Contemporary U.S. History G, Part 2	Human Geography and Civics; AP Human Geography. Complete part 1 before part 2.	10
.5	T130S / NA / NA	Pre-AP U.S. History, summer only	Students should be registered for AP U.S. History in the fall; optional course for preceding summer; elective credit	10
.5 .5	T116S / T116F / T116W T118S / T118F / T118W	World History G, Part 1 World History G, Part 2	Cont. U.S. History; AP U.S. History; American Studies 10 Honors. Complete part 1 before part 2.	11
.5 .5	T120S / T120F / T120W T122S / T122F / T122W	AP World History, Part 1 AP World History, Part 2	Contemporary U.S. History; AP U.S. History; American Studies 10 Honors (grade B or better). Complete part 1 before part 2.	11-12
.5	T140S / T140S / T140W	AP Comparative Government	None	11-12
.5	T136S/ T136F / T136W	AP Macroeconomics	None	11-12
.5	T108S/ T108F / T108W	AP Psychology	None	11-12
WORLD LANGUAGES				
.5 .5	T422S / T422F / T422W T423S / T423F / T423W	French I, part 1 French I, part 2	None None	9-12
.5 .5	T400S / T400F / T400W T401S / T401F / T401W	Spanish I, part 1 Spanish I, part 2	None None	9-12
.5 .5	T406S / T406F / T406W T407S / T407F / T407W	Spanish III Honors, part 1 Spanish III Honors, part 2	Spanish II G or II Honors with permission from teacher	9-12
MISCELLANEOUS ELECTIVE				
.5	NA / NA / T940W	Model UN, winter only	Open to students in grades 10-12 who are returning members of the Model UN club.	10-12

Tonka Online

Tonka Online provides Minnetonka High School students with opportunities to explore areas of interest, flexibility in scheduling, and preparation for higher level courses. With more than 200 courses offered at Minnetonka High School—including specialty programs like VANTAGE, International Baccalaureate, Project Lead the Way, and a world-class fine arts program—students occasionally have a hard time making it all fit. By taking advantage of Tonka Online, students can complete required or preparatory courses during the summer or pick up a seventh class during the school year. Creatively mapping a four-year plan, students now have the ability to complete three years of math in two years, take two music classes during the year, pursue electives that align with their passions, or ensure time for specialty programs during the junior and senior year.

Tonka Online offers the best of both worlds—online flexibility with teachers you know. Through Tonka Online, students have the advantage of a high quality Minnetonka curriculum, taught by outstanding Minnetonka teachers, but students can complete their work on their own time, at their own pace, and in the comfort of their own study space. Using the familiar Schoology online platform, students complete work, collaborate with classmates, discuss topics with teachers, and gain frequent feedback through online assessments; but with Tonka Online, you can also meet face-to-face with your teachers if additional support is needed.

Students who choose to take an online course IN ADDITION TO the standard course-load will be charged a fee of $325 for each semester course. The fee for online Physical Education is $199 if taken as a summer or seventh course. Fees will be applied to the student account in Skyward Fee Management. During the regular school year (semester 1 and 2), 11th and 12th grade students may register for Tonka Online as part of their six-period schedule. Students in grades 9-10 may only register for Tonka Online classes as a seventh course.

There are opportunities for students to complete courses online through a variety of other accredited programs. Students interested in online courses OTHER THAN TONKA ONLINE must meet with their school counselors prior to enrolling. Online courses that have not been approved by the Minnesota Department of Education must be approved by the student's counselor prior to online registration to receive credit.

TONKA ONLINE AP ART HISTORY

Course #T800F

Grade(s) offered: 10-12
Credits: 0.5 (per semester)
Prerequisites: None

Course Description:
In this Art History course you will acquire the tools to be conversant about any piece of art you encounter for the rest of your life. You will master how to approach a work of art, the vocabulary and analytical methods with which to discuss it, and the knowledge of how it fits into the general sweep of art historical periods and styles. AP Art History is designed as a college-level course and students need to be prepared to keep up with the rigor of the material. Upon completion of the course, it is expected that students take the AP Art History exam.

Instructional Methods/Assessments:
This is an online course; however, you will use a textbook for reading. Visual aids in PowerPoint will be used for discussion of material, styles, and works of individual artists. Supplemental readings will be assigned. Assessment is based upon degree of involvement in online discussions, as well as online quizzes, essays, and exams.

Recommended Background for Success:
Students who have an interest in art and history will do well. Those who have taken AP European History will have an advantage as you will be applying previous knowledge. The ability to write essays is a critical component of the AP exam.

TONKA ONLINE DIGITAL PHOTOGRAPHY

Course #T802*

***Select term S=summer, F=fall, W=winter**

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will introduce students to digital photography and the use of other digital technology as a means for self-expression in art. Students will learn basic digital camera operation, printer techniques and electronic darkroom basics. Students will be introduced to a variety of approaches to subject matter, as well as art criticism in a historical and cultural context in order for students to begin to develop a critical vocabulary. This is a great course for students seeking a career in advertising and graphic design as students will learn how to manipulate images using industry standard programs like CS6 Adobe Photoshop. Projects will be theme-based with specific requirements blending technical skills with the creative process.

Instructional Methods/Assessments:
Methods include online demonstrations, lab/studio work, individual projects and daily progress logs. Assessment is done through self, peer and teacher assessments during class critiques using an online format, projects, class discussions (through Schoology), technical tests and exhibitions.

Recommended Background for Success:
Students need an interest in working with computer and digital camera technology as a medium for artistic expression. Students must be self-motivated, creative and willing to work individually and collaboratively in teams. A limited number of cameras will be available to check out. It is highly recommended students have access to a camera of their own if taking the online option. Proficient Schoology and Google Drive use is recommended.

TONKA ONLINE DRAWING

Course #T804*

***Select term S=summer, F=fall, W=winter**

This course completes .5 towards the Arts credit

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This course will teach a basic understanding of multiple drawing skills. Students will be implementing these skills into a variety of techniques to turn out successful projects. A variety of drawing media will be used. Students will be working on a wide variety of subject matter in their assignments from a still life to portraiture. The "Art Elements and Principles," as well as research of topics, will guide students in the completion of fun and interesting assignments.

Instructional Methods/Assessments:
A variety of artwork, both professional and student, will show the use of different skill levels and techniques. Demonstrations will be done through the use of various technologies to strengthen student understanding and success. Critiques will help in problem-solving and in the development of ideas. Assessments are based on: Daily progress photos submitted to Schoology, quizzes, observed self-improvement, comprehension and implementation of skills and techniques taught.

Recommended Background for Success:
Students should have patience, be goal-oriented

and have an eye for detail. Seeing how light and shadows are used to make a drawing powerful is very important.

TONKA ONLINE ENGLISH 11

Course #T702*, part 1
Course #T703*, part 2
***Select term F=fall, W=winter**
Online: Complete part 1 before part 2
Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Any English 10 Course

Course Description:
English 11 focuses on diverse voices and cultures through a variety of text types. From graphic novels to film to classic literature, students will focus on the individual's place in society. Student writing will include traditional essays, as well as more creative and exploratory pieces. Students will also practice and refine research skills, with an emphasis on persuasion and synthesis. In addition, students will work on vocabulary development and review grammar and usage to help prepare for the SAT and ACT. The culminating experience for students in English 11 is personal narrative writing that can segue into the college essay. As this is an online course, students will also develop their abilities to work independently and manage their time responsibly. There will also be an emphasis on soft skills, such as proper email etiquette, initiating meetings with the instructor, self organization, and proper digital communication with classmates.

Instructional Methods/Assessments:
Readings, videos, and discussion boards based on assigned readings are the primary instructional methods. Students will be assessed by means of homework, quizzes, unit tests, essays, digital projects, and written projects.

Recommended Background for Success:
Students should be prepared to develop and improve their reading, critical thinking, discussion, and writing skills. They should expect to participate in online discussions and work independently. Students will need to manage time, complete daily reading assignments, and submit assignments on time. Students should be prepared to hear multiple perspectives and to respectfully react and respond to these voices. As this is an online course, students who are self motivated, highly organized, and able to set personal goals will be most successful. Students who have success completing work outside of a classroom or without teacher supervision will excel.

TONKA ONLINE ENGLISH 12

Course #T700*
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 12
Credits: .5 (semester course)
Prerequisites: Any English 11 Course

Course Description:
This course provides students with the opportunity to reflect on themselves—who they are, where they are, and where they are going—as they prepare to transition into the next phase of their lives. While this is an English course that does focus on developing skills in reading, writing, speaking, and viewing, it also encourages students to consider how key themes in both classic and contemporary literature connect to their own journeys. Course assessments ask students not only to demonstrate their understanding of the texts, but also to make personal connections in their writing and speaking. Materials will include classic and contemporary texts, and non-traditional text-types. The culminating project will be a research-based experience. As this is an online course, students will also develop their abilities to work independently and manage their time responsibly. There will also be an emphasis on soft skills, such as proper email etiquette, initiating meetings with the instructor, self organization, and proper digital communication with classmates.

Instructional Methods/Assessments:
Discussion, lecture, and various fiction and nonfiction texts are the primary methods for presenting course material. There is occasional small group and partner work as some assessments require collaboration. Students' assessments include a variety of written tasks. This is a literature-focused course, but there are significant aspects of writing and reading/research work.

Recommended Background for Success:
Students who are curious about and willing to engage with the people and world around them will be good candidates for this course. Students must be motivated to expand their perspective and to develop and improve their reading, critical thinking, and writing skills. They must be willing to write and work both collaboratively and independently and respectfully react and respond to the texts. Independence, risk-taking and resiliency are other important factors of success.

TONKA ONLINE AP LANGUAGE & COMPOSITION 12

Elective or Required Option
Course #T704*
***Select from S=summer F=fall or W=winter**
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Any English 11 Course

Course Description:
AP Language and Composition is an introductory college-level course that prepares students to take the AP English Language and Composition exam, and may also enable students to gain advanced placement, college credit, or both. In this course, students analyze a broad and challenging range of nonfiction prose and trace the use of rhetoric in making arguments and appeals. Students will read essays, letters, speeches, images, media messages, memoirs and autobiographies, from a variety of authors and historical contexts. The essays students write in this class will allow them to practice the kinds of writing that will be expected college and other post-secondary settings. It is expected that students taking this course will take the AP Exam. Prior to beginning the course, students will receive summer reading selections and assignments. As this is an online course, students will also develop their abilities to work independently and manage their time responsibly. There will also be an emphasis on soft skills, such as proper email etiquette, initiating meetings with the instructor, self organization, and proper digital communication with classmates.

Instructional Methods/Assessments:
Instructional methods include large and small group online discussions (student will be expected to post responses on a regular basis). All written work will be submitted online; students will be asked to review and evaluate their peers' writing and to arrange for individual conferences with the instructor at least twice during the semester. Students are assessed primarily through their writing of essays and texts.

Recommended Background for Success:
As this is a college-level course, students will be

Tonka Online

challenged with college-level work. As this is also an online course, it will be important that students have effective time management skills, and the ability and desire to read carefully and analytically.

TONKA ONLINE INDEPENDENT LIVING

Course #T900*
***Select term S-summer, F=fall, W=winter**

Grades Offered: 11-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
This course is designed to teach juniors and seniors successful strategies for life after high school. Topics include: college preparation, budgeting, handling a credit card, credit score, loans, identity theft, interviewing and resume writing skills, renting an apartment, buying a car, obtaining insurance, etc. Parents consistently claim they wish this class was required and past students email often with stories of using knowledge from class in the real world.

Instructional Methods/Assessments:
Instructional methods include real-life problem solving, notes and projects. Assessments include projects, quizzes and tests.

Recommended Background for Success:
Students should have basic math skills (adding, subtracting, multiplication, and division) and effective study skills.

TONKA ONLINE QUADRATIC ALGEBRA

Course #T300*, part 1
Course #T302*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9- 12
Credits: .5 (per semester)
Prerequisites: C or Better in Algebra of Lines, or teacher recommendation for part 1.

Course Description:
This course builds on topics covered in Algebra of Lines, or middle school Pre-algebra. Topics include data handling, drawing scatter plots, polynomial expressions, quadratic functions and solving quadratic equations, and exponential functions.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, IV Data Analysis, Statistics, and Probability.

Recommended Background for Success:
Completion of Algebra 1; ability to solve one and two-step linear equations; understanding and use of number operations and order of operations with integers; understanding and use of fractions, percent's, ratios and proportions and able to graph linear equations. Students should have a graphing calculator.

TONKA ONLINE GEOMETRY

Course #T304*, part 1
Course #T306*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: . .5 (per semester)
Prerequisites: Successful completion of Quadratic Algebra or 8th grade Algebra for part 1.

Course Description:
This course builds on topics covered in Algebra of Lines, or middle school Pre-algebra. Topics include data handling, drawing scatter plots, polynomial expressions, quadratic functions and solving quadratic equations, and exponential functions.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, V. Spatial, Sense, Geometry and Measurement.

Recommended Background for Success:
Students should have the ability to solve linear equations and quadratic equations, solve systems of equations, graph linear and quadratic equations visualize objects and understand area and perimeter, understand and work with ratio and proportions.

TONKA ONLINE HIGHER ALGEBRA

Course #T308*, part 1
Course #T310*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Geometry or teacher recommendation.

Course Description:
This two-semester course is an alternative to Higher Algebra Honors (3112, 3114). The topics covered in this class are: probability, transformation, quadratics, higher degree polynomials, logarithms, exponentials, recursion and function notation. The distinction between this course and Higher Algebra Honors is the pacing at which the above content is covered; which does not allow for the following topics: circles, matrices, and conic sections. Taking this course does not limit a student's post Higher Algebra math options.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II. Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, IV Data Analysis, Statistics, and Probability.

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems, and multiply and factor polynomials. Students should have a graphing calculator.

TONKA ONLINE HIGHER ALGEBRA HONORS

Course #T350*, part 1
Course #T352*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: B or better in Geometry Honors, B+ or better in Geometry, or teacher recommendation

Course Description:
The course reviews and extends the concepts learned in Algebra and Geometry. Semester 1 topics include: Function Notation Transformations of functions, Quadratic functions and Higher Degree Polynomials. Semester 2 topics include: Recursion, Exponential Equations, Logarithms, Probability, matrices, and conic sections.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II. Number Sense, Computation, and Operations, III. Patterns, Functions, and Algebra, IV Data Analysis, Statistics, and Probability.

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems, and multiply and factor polynomials. Students should have a graphing calculator.

TONKA ONLINE FUNCTIONS, STATISTICS & TRIGONOMETRY

Course #T334*, part 1
Course #T336*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Higher Algebra

Course Description:
This course enables the students to display, describe, transform and interpret numerical information represented as data, graphs or equations. Using technology, students will visualize functions, explore relations between equations and their graphs, simulate experiments, generate and analyze data. This course uses a STEM (Science, Technology, Engineering, and Mathematics) approach by incorporating an engineering component that emphasizes the process and design of solutions using computers with specialized and professional applications, graphing calculators, mobile devices, and the Internet. Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, Operations, III. Patterns, Functions, Algebra, IV Data Analysis, Statistics, Probability, V. Spatial Sense, Geometry and Measurement.

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems, and multiply and factor polynomials. Students should have a graphing calculator.

TONKA ONLINE FUNCTIONS, STATISTICS & TRIGONOMETRY (AP STATISTICS PREP)

Course #T341S, summer only

Grade(s) offered: 10-12
Credits: .5
Prerequisites: Successful completion of Higher Algebra

Course Description:
This one semester summer course enables students to transition from Higher Algebra to AP Statistics in the fall of the following year. This course uses a STEM (Science, Technology, Engineering, and Mathematics) approach by incorporating an engineering component that emphasizes the process and design of solutions using computers with specialized and professional applications, graphing calculators, mobile devices, and the Internet.

Instructional Methods/Assessments:
Include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, Operations, III. Patterns, Functions, Algebra, IV Data Analysis, Statistics, Probability.

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems, and multiply and factor polynomials. Students should have a graphing calculator.

TONKA ONLINE FUNCTIONS, STATISTICS & TRIGONOMETRY (PRECALCULUS PREP)

Course #T345S, summer only

Grade(s) offered: 9-12
Credits: .5
Prerequisites: Successful completion of Higher Algebra

Course Description:
This one semester summer course allows Higher Algebra students that did not meet the prerequisites for Precalculus to prep for and with successful completion take Precalculus in the fall of the following year. This course uses a STEM (Science, Technology, Engineering, and Mathematics) approach by incorporating an engineering component that emphasizes the process and design of solutions using computers with specialized and professional applications, graphing calculators, mobile devices, and the Internet.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Minnesota State Standards:
Portions of I. Mathematical Reasoning, II Number Sense, Computation, Operations, III. Patterns, Functions, Algebra, IV Data Analysis, Statistics, Probability

Recommended Background for Success:
Students should have the ability to solve multi-step equations and inequalities, graph linear equations and inequalities, set up and solve word problems, and multiply and factor polynomials. Students should have a graphing calculator.

TONKA ONLINE PRECALCULUS HONORS

Course #T312*, part 1
Course #T314*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: B or better in Higher Algebra Honors, B+ or better in Higher Algebra, or teacher recommendation

Course Description:
This course is for students who have a strong interest in advanced math. In this course, students study precalculus, statistics, probability, vectors, matrices, as well as series sequences. This course can be used as an introductory course to IB Mathematics SL, IB Mathematics HL or AP Calculus AB.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and final exam.

Recommended Background for Success:
It is expected that the students have a graphing calculator (TI-83 or TI-84 plus are recommended). .Students should be able to simplify rational expressions, solve rational equations and solve systems of linear and nonlinear equations; represent real world problem situations using variables and/or geometric models and solve polynomial equations. Students should have had exposure to logarithms and algebraic functions.

TONKA ONLINE AP CALCULUS PREP

Course #T316S, summer only

Grade(s) offered: 9-12
Credits: N/A
Prerequisites: Completion of Precalculus

Course Description:
AP Calculus Prep is an online course for the student that wants a solid background in calculus in preparation for AP Calculus AB, or is bypassing AP Calculus AB and going directly in AP Calculus BC. Students completing this online course will be prepared for the rigor of AP Calculus AB and/or AP Calculus BC. This course will cover the skills required for first semester college calculus.

This course is open to students that have the desire to accelerate their mathematical learning, or wish to enhance their understanding of calculus, or would like a refresher course before taking on a calculus course—at the high school or college level.

Instructional Methods/Assessments:
The course will be taught online, using lectures, Schoology quizzes, summative assessments after

Tonka Online

each chapter and required online homework. There will also be a library of practice problems with solutions for students to practice.

Recommended Background for Success:
Students taking this course will have completed Precalculus or higher. The successful student will be self-motivated, curious and organized. The course will cover a year's worth of skills necessary for success in AP Calculus AB and BC; students must commit to the daily work and practice required for success.

TONKA ONLINE AP STATISTICS

Course #T354*, part 1
Course #T356*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Successful completion of Math Studies, Functions, Stats & Trig, Precalculus or teacher recommendation

Course Description:
This course focuses on descriptive statistics. Topics include exploring data, normal distributions, bivariate data, linear & non-linear regression, sample design, and probability. Students focus on inferential statistics. Topics include random variables, binomial and geometric distributions, sample distributions, tests of significance, and inference of means, proportions, two-way tables and regression. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, discussions, and cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and final exam.

Recommended Background for Success:
This course focuses on descriptive statistics. Topics include exploring data, normal distributions, bivariate data, linear & non-linear regression, sample design, and probability. Students focus on inferential statistics. Topics include random variables, binomial and geometric distributions, sample distributions, tests of significance, and inference of means, proportions, two-way tables and regression.

TONKA ONLINE INTRODUCTION TO COMPUTER SCIENCE

Course #T960S, summer only

Grades Offered: 9-12
Credits: .5 (semester course)
Prerequisites: Algebra

Course Description:
Students work in teams to create simple apps for mobile devices using MIT App Inventor®. Students explore the impact of computing in society and the application of computing across career paths and build skills and awareness in digital citizenship and cybersecurity. Students model, simulate, and analyze data about themselves and their interests. They also transfer the understanding of programming gained in App Inventor to learn introductory elements of text-based programming in Python® to create strategy games.

Instructional Methods/Assessments:
Essential Questions:

- How has computing affected the world we live in? Why is it advantageous to break a problem down into smaller pieces and build a solution incrementally? How do computers represent the data in words, numbers, pictures, and sound?
- How complex is a piece of software organized? How do teams plan and create complex solutions to a problem?
- How do I safely use the Internet? How do people collaborate to create software applications?
- How do apps share data across devices through the Internet to let users to interact? What data are you contributing via our interactions on the Web and through apps, and to whom are you contributing the data? What new phenomena are being created when many users are contributing data set?
- How are algorithms used to solve common problems?

Recommended Background for Success:

- This class will be a review and extension of the computer programming units completed in STEM and Tech Ed classes.
- Students should have a strong interest in Computer Programming and app development.
- This class will serve as a great foundation for students who are interested in pursuing Computer Science classes at the High School Level such as Mobile App Design, AP Computer Science Principles, or AP Computer Science A.

TONKA ONLINE AP COMPUTER SCIENCE PRINCIPLES

Course #T966*, part 1
Course #T967*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grades Offered: 9-12
Credits: .5 (per semester)
Prerequisites: C or better in Algebra; Introduction to Computer Science is recommended but not required

Course Description:
CS Principles is designed to be a full-year, rigorous, but entry-level course for high school students. The Internet and Innovation provide a narrative arc for the course, a thread connecting all of the units. The course starts with learning about what is involved in sending a single bit of information from one place to another, and ends with students developing small applications of their own design that live on the web. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further.

Instructional Methods/Assessments:
Assessment
The AP Assessment consists of a multiple choice exam and two "through-course" assessments called the AP Performance Tasks (PTs).
Summative Assessments
There are several lessons in the curriculum that outline projects that are very similar to the AP PTs. We call them Practice PTs. Each unit contains at least one Practice PT and some have two.

Recommended Background for Success:
This course can be an entry-level course; however, it is recommended that students take Intro to Computer Science prior to AP Computer Science Principles. The Intro to CS course can be taken at either the middle school level (8th grade) or the high school level. The course requires a significant amount of expository writing (as well as writing computer code, of course). For students wishing to complete the requirements of the AP Exam and Performance Tasks, we recommend they be in 10th grade or above.

The course does not aim to teach mastery of a single programming language but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

TONKA ONLINE AMERICAN POPULAR MUSIC

Course #T600*
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 9-12
Credits: .5 (Semester Course)
Prerequisite: An interest in music.

Course Description:
American Popular Music is a one-term course designed for students who would like to explore the history of popular music in the United States from the early 19th century to today. Topics will include Early American Pop Music, Jazz and Blues, the Swing Era, Early Rock & Roll, The British Invasion, the 1960's, the MTV era, Hip-Hop, and the music of today. Students will be

evaluated on daily work, online discussion posts, unit written quizzes, listening quizzes, individual projects and a final examination.

Instructional Methods/Assessments:
Online discussions, interactive assignments, quizzes and extensive music listening will be a part of the learning experience.

Recommended Background for Success:
No previous music experience or knowledge is necessary, but may be helpful. A willingness to learn about and discuss the history of popular music is required.

TONKA ONLINE FITNESS A

Course #T500*
***Select term S=summer, F=fall, W=winter**
This course completes .5 towards the Physical Education credit
Grade(s) offered: 9-12
Credits: .5
Prerequisites: None. Fees apply for summer.

Course Description:
Online Fitness creates an opportunity for students to extend their learning around a school-sponsored sport or lifetime fitness activity outside of school. Students will use a Fitbit to track their physical activity; students will be expected to complete 12,000 steps per day on school days for fall and spring semester courses and 15,000 steps per day five days of the week for the summer semester course. Students will achieve a higher level of health literacy focusing on individual fitness.

Instructional Methods/Assessment:
Instruction will be delivered through an online environment utilizing readings, videos, and online discussions. Assessments include online discussions, quizzes, worksheets, journaling, a written exam, and daily physical activity.

Recommended Background for Success:
Students should have successfully completed Physical Education K-8. Students should expect to engage in moderate to vigorous physical activity for 30-45 minutes per day on school days* and an additional 30-45 minutes per week to complete written course work.
*Students should expect to engage in moderate to vigorous physical activity for 45-60 minutes per day on five days of the week in the summer semester.

TONKA ONLINE WELLNESS PROGRAM B

Course #T502*
***Select term S=summer, F=fall, W=winter**
Grade(s) offered: 9-12
Credits: .5
Prerequisites: One Fitness A course. Fees apply for summer.

Course Description:
Online Wellness creates an opportunity for students to extend their learning around a school-sponsored sport or lifetime fitness activity outside of school. Students will use a Fitbit to track their physical activity; students will be expected to complete 12,000 steps per day on school days for fall and spring semester courses and 15,000 steps per day on five days of the week for the summer semester course. Students will achieve a higher level of health literacy focusing on individual wellness.

TONKA ONLINE AP ENVIRONMENTAL SCIENCE

Course #T200*, part 1, Tonka Online
Course #T202*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Chemistry, Physical Science

Course Description:
This is a full-year course for students interested in the world's natural environment and related issues. Students will analyze environmental issues and alternative solutions for resolving or preventing them. This multidisciplinary course will include diverse topics in sociology, ethics, earth science, ecology, population dynamics, land and water use, energy resources, pollution, and global change. It is expected that students electing this course will take the AP exam. AP Environmental Science is designed to be the equivalent of a one semester, introductory college course in environmental science.

Instructional Methods/Assessments:
Instructional methods include online lectures, tutorial activities, independent research projects, and field trips. Instructor support will be provided to students for each unit of study and exam preparation. Assessments include tests, quizzes, projects, lab reports and a final exam.

Recommended Background for Success:
A solid understanding of concepts in Life Science, Earth Science, Chemistry and/or Physical science.

TONKA ONLINE PHYSICS G

Course #T204*, part 1
Course #T205*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science G or Honors

Course Description:
Practical applications are used to explore the basic ideas of physics. Topics in optics, wave motion, mechanics, energy, and electricity are normally studied. Nuclear physics is included if time permits. This laboratory-centered course is for students who may need a basic physics course in preparation for college or technical school programs.

Instructional Methods/Assessments:
Instructional methods include lectures, labs, lab reports, homework, and projects. Assessments include tests, quizzes, lab reports, homework, projects and a final exam.

Recommended Background for Success:
Algebra problem-solving skills.

TONKA ONLINE AP PHYSICS C-MECHANICS

Course #T208W, Winter
***Select term W=winter**
Grade(s) offered: 10-12
Credits: .5 (Spring semester only)
Prerequisites: Have completed or be enrolled in both AP Physics 1 AND a calculus course before or while taking AP Physics C-Mechanics Online.

Course Description:
AP Physics C-Mechanics Online is the equivalent of a first-semester college course in calculus-based physics. This one-semester course is only offered during the spring semester and covers mechanics topics with a calculus lens in a self-paced/teacher-guided online format. These topics are Kinematics, Newton's Laws, Work/Energy/Power, Momentum, Rotation, and Oscillations. Successful completion of this program will adequately prepare students for the AP Physics C-Mechanics exam in the spring and is a strong preparation course for the year-long AP Physics Electricity and Magnetism calculus-based course students could take the following year. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Students complete self-study units using instructor created videos, online simulations, labs with common household items, and a college textbook. Formative online assessments and online homework help students know how they are progressing with the material. Assessments include tests, quizzes, lab reports, homework, projects, and a final exam. Although students have flexibility within the units, each unit has specified deadline for summative assessments.

Recommended Background for Success:
Students who would like flexibility in their schedules and are self-motivated would be a good fit for this online science course. Prior completion of, or current enrollment in AP Physics 1 AND a calculus course is required.

Tonka Online

TONKA ONLINE PRE-AP CHEMISTRY

This course completes .5 toward an elective credit

Course #T213S*, summer only

Grade(s) offered: 9-12
Credits: .5 (semester course)
Prerequisites: Students should be registered for AP Chemistry in the fall; optional course for preceding summer.

Course Description:
This course follows the first semester curriculum of Chemistry Honors and includes support for the AP Chemistry summer assignment. Topics include significant figures, advanced nomenclature, periodic properties, atomic theory, multi-step stoichiometric calculations and chemical reactions. The overall goal of the course is to provide a pathway for prospective AP Chemistry students to solidify a strong chemistry foundation as they transition to college level coursework.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, lab work, projects, field trips and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes, projects, lab reports and proctored semester final exam.

Recommended Background for Success:
Students will need to be motivated learners with strong reading skills. This is a face-paced online course in which students will need to advocate for their learning needs via Schoology. Tonka online orientation materials will be provided.

TONKA ONLINE CHEMISTRY HONORS

Course #T214, part 1
Course #T215, part 2
***Select term S-summer, F=fall, W=winter**
***Online, complete part 1 before part 2**

Grade(s) Offered: 9-12
Credits: 1.0 (year-long course)
Prerequisites: A or B in Physical Science Honors, A in General Physical Science, Instructor recommendation encouraged

Course Description:
This course is for students who plan to major in chemistry or a related field that requires more than one year of college chemistry. Students will gain academic independence, critical thinking and problem solving skills through the completion of the course. Topics include moles, nomenclature, reaction types, stoichiometry, gas laws, molecular bonding, thermodynamics, kinetic, equilibrium, acid-base theory, oxidation reduction reactions, organic chemistry and electrochemistry.

Instructional Methods/Assessments:
Students will receive direct instruction through video lectures and complete projects using various iPad apps such as Adobe Voice, Popplet, Color Uncovered and Explain Everything. Students will also use the Late Nite Labs program to conduct chemistry experiments online. In-school experiments are also a required component of the course. Assessments will be both formative and summative and involve quizzes, unit exams, projects and laboratory tests and formal laboratory reports.

Recommended Background for Success:
Students will need to be highly motivated learners with strong reading, algebra and problem-solving skills. Organization and time management are key components of online learning. Additionally, students will need the ability to complete assignments and advocate for their learning needs via Schoology.

TONKA ONLINE BIOLOGY G

Course #T222*, part 1
Course #T223*, part 2
***Select term S-summer, F=fall, W=winter**

Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Physical Science, Chemistry

Course Description:
This course is a study of biology, with an emphasis on biology topics at the cellular and molecular level. The concepts that are covered include the cell, membranes, biochemistry, metabolism, enzymes, photosynthesis, cell respirations, molecular basis of inheritance, cell division, patterns of inheritance, ecology, evolution and human body systems. This course is designed for students interested in having a more rigorous college-preparatory biology experience.

Instructional Methods/Assessments:
Instructional methods include labs, lectures, discussions, videos, computer software and Internet activities, periodical readings, and written assignments that include graphing and analysis. Assessments include lab write-ups, quizzes, tests, homework, textbook readings, tests offered quarterly and a final exam.

Recommended Background for Success:
An understanding of basic chemistry concepts.

TONKA ONLINE PRE-AP BIOLOGY

This course completes .5 toward an elective credit

Course #T217S, summer only

Grade(s) offered: 10-12
Credits: .5 (semester course)
Prerequisites: Students should be registered for AP Biology in the fall; optional course for preceding summer

Course Description:
Students in this 11-week summer course will complete online study and practice learning activities to prepare for the rigor and pace of Advanced Placement Biology. They will additionally receive online instruction and practice in use of Excel and statistical analysis, skills used extensively in the lab component of the AP Biology course.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, lab work, projects, field trips and discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes, projects, lab reports and proctored semester final exam.

Recommended Background for Success:
Students will be expected to participate by reading, completing study assignment and assessments, and discussing the topic of biological study. Students will need to be motivated learners with strong reading skills. This is a face-paced online course in which students will need to advocate for their learning needs via Schoology. Tonka online orientation materials will be provided.

TONKA ONLINE EXCEL AND STATISTICS IN BIOLOGY

Course #T220*
***Select term S-summer, F=fall, W=winter**

Grades Offered: 9-12
Credits: 0.25
Prerequisites: None

Course Description:
Students in this .25 credit course will complete online study and practice learning activities related to using graphical and statistical analysis in biology in order to prepare for use of these skills as applied extensively in the lab component of MHS biology courses.

Instructional Methods/Assessments:
Videos, online study assignments and assessment practice will be used to demonstrate the graphing and statistical analysis tools and study methods used in biology. Assessment is based upon practice activities, exams, and participation in online Schoology discussion board and/or live chat forums, such as Google Hangouts on Air.

Recommended Background for Success:
Students will be expected to participate by reading and completing practice assignments and assessments. Students in this course will need to be motivated, independent learners with strong reading skills. This is a self-paced online course in which students will need to advocate for their learning needs via Schoology. Tonka online orientation materials will be provided.

TONKA ONLINE CONTEMPORARY U.S. HISTORY

Course #T100*, part 1
Course #T102*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 10
Credits: .5 (per semester)
Prerequisites: Human Geography and Civics; AP Human Geography

Course Description:
This two-semester course will provide a thematic study of persons, events and national developments in U.S. History with a focus on the 20th Century to the present. This course will prepare students for an understanding of the role of the U.S. in the world after WWI.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, oral and written presentations, discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Recommended Background for Success:
Basic knowledge of U.S. geography and government.

TONKA ONLINE WORLD HISTORY G

Course #T116*, part 1
Course #T118*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 11
Credits: .5 (per semester)
Prerequisites: Contemporary U.S. History; AP U.S. History; American Studies 10 Honors

Course Description:
This course concentrates on the historical and geographic themes of the world from the Renaissance through the Modern World. Attention to philosophy, political science, economics, religion, and culture are part of the curriculum.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, oral and written presentations, discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Recommended Background for Success:
Basic reading, note taking, and writing skills.

TONKA ONLINE AP WORLD HISTORY

Course #T120, part 1
Course #T122, part 2
***Select term S=summer, F=fall, W=winter**

Grades Offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Contemporary U.S. History; AP U.S. History; American Studies 10 Honors (grade B or better)

Course Description:
Students complete advanced level reading, writing, and analysis on topics in World History. Reading assignments come from a college-level text, and students work to become more skilled at answering stimulus-based multiple choice exams and short answer questions and writing historical essays. The AP World History course begins with the period "to 600 BCE" and ends in the present day. The class is divided into manageable periods and the class will also focus on mastery of skills critical to the AP World History exam. Students may choose to take the World History AP exam for possible college credit.

Instructional Methods/Assessments:
Instructional methods include readings, discussion boards, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports, online class participation, and AP World History exam for college credit (optional).

Recommended Background for Success:
Completion of AP U.S. History or American Studies 10 Honors, an interest in an in-depth, college-level course, and record of performing at an "A" or "high B" level in social studies courses.

TONKA ONLINE PRE-AP U.S. HISTORY

This course completes .5 toward an elective credit

Course #T130S, summer only

Grades Offered: 10
Credits: .5 (per semester)
Prerequisites: Students should be registered for AP U.S. History in the fall; optional course for preceding summer

Course Description:
Students in this 11-week summer course will complete online study and practice learning activities to prepare for the rigor and pace of Advanced Placement U.S. History. Reading assignments will come from a college-level text and supplementary readers. Students will work to become more skilled at note-taking, evaluating primary and secondary sources, taking stimulus-based exams and writing historical essays.

Instructional Methods/Assessments:
Instructional methods include readings, discussion boards, videos, analysis of documents, and review of interpretive essays by historians. Assessments include essays, objective tests, document-based essays, reading reports, and online class participation.

Recommended Background for Success:
Students should come to this course with an interest to improve their historical reading, thinking and writing skills. Students should have the ability to focus on academic pursuits in an online environment. In addition, students should have some technical proficiency and an interest in online learning.

TONKA ONLINE AP COMPARATIVE GOVERNMENT

Course T140*
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This college level course analyzes the political systems of the United Kingdom, Russia, China, Mexico, Nigeria and Iran. By examining these six countries, students will develop an understanding of political concepts and themes, become proficient at comparing and contrasting different political processes and behaviors and be able to analyze and interpret current political developments in these countries. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include discussions, lecture, exposure to and assessment of current articles and book excerpts, written activities, group work, presentations, class debate and guest speakers. Assessments include tests, quizzes, in-class written essays, case studies, formal papers, presentations and summaries of opinions on relevant articles and current issues.

Recommended Background for Success:
Students should demonstrate an ability to read college-level materials. Interest in and desire to learn more about the global environment we now live in.

TONKA ONLINE AP MACROECONOMICS

Course #T136*
***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
Students will study economic growth, inflation, unemployment, foreign trade, monetary, and fiscal policies at a college freshman level. Lessons are designed to assist students who wish to take the Advanced Placement test for college credit. It is expected that students electing this course will take the AP exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include lecture, class discussion, simulations, individual and group activities. A variety of assessments are employed including tests, quizzes, daily work, projects, and both individual and group activities.

Recommended Background for Success:
Students should demonstrate an ability to read college level material, basic math skills, and the ability to express thoughts.

Tonka Online

TONKA ONLINE AP PSYCHOLOGY

Course #T108*

***Select term S=summer, F=fall, W=winter**

Grade(s) offered: 11-12
Credits: .5 (semester course)
Prerequisites: None

Course Description:
This AP class is an introduction to college-level Psychology using a college text, "collegiate-style" pace and classroom climate, and college-level exams. Psychology is the study of behavior and mental process. Topics include the brain's influence/control of everyday activity, sleep and dreams, human development, learning and thinking, psychological disorders, relationships, and the influence of social settings on behavior. The student will become actively involved in an introductory study of the field of psychology. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include video lectures, text notes, oral and written presentations, discussions, cooperative and individual investigation. Assessments include daily work, tests, quizzes and proctored midterm and semester final exam.

Recommended Background for Success:
Students should have strong reading and study skills.

TONKA ONLINE FRENCH I

Course #T422*, part 1

Course #T423*, part 2

***Select term S=summer, F=fall, W=winter**

***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students will learn common and useful expressions, vocabulary, and grammatical structures in the present tense and near future. They will develop their skills in listening and understanding, speaking, reading and writing. In addition, students learn about French culture via songs, films and other sources. They will become familiar with the French speaking world, as well as the monuments and places of Paris.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/oral practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

TONKA ONLINE SPANISH I

Course #T400*, part 1
Course #T401*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students in this course will begin with the basic fundamentals of Spanish. Basic practical vocabulary and sentence structure in the present and immediate future tenses are introduced throughout the year. Two important elements in the classroom are the teacher's use of spoken Spanish and the students' development of good listening skills and pronunciation. Culture is also studied through songs, current events, and movies. Skits, dialogues, games, and videos are used to supplement the text and foster increased language ability.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/oral practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments: Oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have good daily study skills and the ability to memorize.

TONKA ONLINE SPANISH III HONORS

Course #T406*, part 1
Course #T407*, part 2
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Spanish II G or II Honors with teacher permission

Course Description:
Students are expected to use Spanish as much as possible as the instructor presents most material in Spanish. The course includes a comprehensive review of commands and all verb tenses previously studied. Students learn compound verb tenses and the present subjunctive (forms and basic uses). There is continued emphasis on both oral and written skills. Students learn songs, write compositions and create and perform skits. Emphasis is placed on literature throughout the year by reading poetry and short stories, as well as articles on current and cultural events.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive drill/practice, paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have an understanding of verbs in the present, preterite, imperfect and command forms. They should be able to use these verb forms in basic Spanish conversation along with accurate grammar and a reasonable amount of common vocabulary.

TONKA ONLINE MODEL UN

Course #T940W, winter only

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: Open to students in grades 10-12 who are returning members of the Model UN club.

Course Description:
The purpose of this course is to increase knowledge about international issues, policy making and the activities of the United Nations. Students will gain valuable skills in public speaking, research and writing, negotiation and powers of persuasion, leadership, organization, and interpersonal communication. Students will gain these skills through course assignments, club activities and, most importantly, by playing the role of United Nations delegates at MUN conferences. This course is a unique opportunity to help students become more knowledgeable and active global citizens.

Instructional Methods/Assessments:
Students will be assessed on their knowledge of Model UN and its committees through online quizzes. They will write position papers that show their understanding and research of their assigned country's perspective on world issues. They will also present their research in an opening speech and moderated caucuses with their peers in mock and authentic conferences.

Recommended Background for Success:
Students who have been successful and hardworking delegates for at least one year in the Model UN Club will find this course to be an extension and deepening of their learning.

VANTAGE

VANTAGE, by definition, is a strategic position. That is exactly what Minnetonka's Advanced Professional Studies program aims to provide Minnetonka students. An innovative educational approach, VANTAGE provides motivated juniors and seniors with real-world experiences in various career settings, where they can develop within high-demand, local professional environments. VANTAGE courses transform academic content by making it real, applied and relevant to the professional world today.

Each VANTAGE course bundles two or three traditional classes with real-world professional projects to apply what's being learned. Three elements drive course design: identified needs within a profession, qualified staff to firmly embed all curricular requirements, and strong career-based interest from students and industry partners. While in the professional setting, students will spend time working on a variety of industry-driven projects, solving authentic problems, interacting with local professionals and senior executives and learning about the challenges of project-based work. In addition to this experience, each course includes rigorous content with innovative instructional techniques.

Students will have four critical sources available to them at all times through the instructional process. This includes designated Minnetonka High School instructors from the associated subject areas, mentors, outside industry experts serving as guest instructors and project sponsors.

Students register for one VANTAGE Course and will automatically be enrolled in the associated courses. The interdisciplinary VANTAGE courses will earn credit for the following classes:

VANTAGE
MINNETONKA ADVANCED PROFESSIONAL STUDIES

CREDITS	COURSE #	COURSE TITLE AND CONTENT	PREREQUISITE	OFFERED
2.0	V100	**Business Analytics** Earning credit for AP Statistics (math credit) and IB Business Management SL/HL (business elective credit)	Interest in business and/or statistics Application process	11-12
3.0	V102	**Business in a Global Economy** Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL/HL (business elective credit)	Interest in global business Application process	11-12
2.0	V104	**Design + Marketing** Earning credits in Graphic and Product Design (art elective credit) and Marketing 1 and 2 (business elective credit)	Interest in design and marketing Application process	11-12
3.0	V200	**Health Sciences** Earning credits in AP Psychology (social studies credit) Exercise Science Fitness A & Mental Health and Wellness B (required PE credit), IB Sports Exercise and Health Science (science credit)	Physical Science and Algebra; Chemistry is strongly recommended; interest in health sciences or sports medicine Application process	11-12
2.0	V300	**Global Food Sustainability: Economics and the Environment** Earning credit for AP Environmental Science (science credit) and Global Studies and Economics (social studies credit)	Biology G, AP Biology or IB Biology SL Interest in sustainability Application process	11-12
2.0	V600	**Digital Journalism** Earning credits in Video Production (arts credit), Digital Journalism & Investigative Research (English credit)	Interest in video production, journalism. Application process	11-12

VANTAGE

BUSINESS ANALYTICS: COURSE INFORMATION

Course:	**#V100**
Grade(s) offered:	11 or 12
Credits:	2.0 (1.0 math credit and 1.0 business elective credit)
Prerequisites:	Application process, interest in global business and statistics. Students registering for IB Business HL must have completed the SL level.

Course Description:
Students will have the opportunity to engage in a real-world experience in high-demand corporate environments where they can learn and grow in areas that may offer future employment opportunities. While in the corporate setting, students will spend both semesters working on a variety of industry-driven projects, solving business problems and learning about the challenges of project-based work. Analyzing and interpreting quantitative information is a primary component of effective business strategy development.

Instructional Methods /Assessments:
Students will have four critical sources available to them at all times through the instructional process. This includes designated instructors from MHS, industry experts as guest instructors, business mentors, and ongoing business projects. Students will have the opportunity to conduct research on the industry of choice. Industries include: business services, buying and merchandising, finance, hospitality and tourism, and sports and entertainment marketing. Assessments will include routine formative grading based on daily work, summative assessments, and industry performance evaluations completed by business clients and instructors.

Recommended Background for Success:
Students applying for this course must have strong communication, leadership, problem-solving, time-management and creativity skills. They must be adaptable, confident, and motivated to collaborate with adults from the professional world as well as their peers. Students in this course will spend two periods of the school day off-campus in professional attire.

AP Statistics
This course examines statistical methods including sampling concepts, data exploration, probability, regression analysis, confidence intervals, and hypothesis testing. More advanced methods of statistical analysis for forecasting, simulation and database management will also be discussed. Course material will include the presentation and discussion of qualitative and quantitative data collection techniques, the uses of secondary data sources, the assessment of data collection quality and the application of statistical analyses to provide managers with relevant information that improves the effectiveness of their decisions. This course requires students to integrate and apply the concepts to design, implement and report on a business research project and will be evaluated by both the teacher(s) and the clients for whom they conduct the project. This course will prepare students for the AP Statistics exam in May.

IB Business Management SL
(HL also available to students)
The class will include case analysis, discussions of business-related statistical problems and excerpts from business publications focused on current use of statistical methods in business decision-making. This course requires students to integrate and apply the concepts to design, implement and report on a business research project and will be evaluated by both the teacher(s) and the clients for whom they conduct the project. Course material will include the presentation and discussion of qualitative and quantitative data collection techniques, the uses of secondary data sources, the assessment of data collection quality and the application of statistical analyses to provide managers with relevant information that improves the effectiveness of their decisions.

VANTAGE students enrolled in Business in a Global Economy work together to conduct research for an industry partner.

This course counts as one elective credit in Business. This course meets the requirements for and prepares students to be successful on the International Baccalaureate in Business and Management SL or HL exam.

BUSINESS IN A GLOBAL ECONOMY: COURSE INFORMATION

Course #V102

Grade(s) offered:	11 or 12
Credits:	3.0 (1.0 social studies credit, 1.0 required English credit and 1.0 business elective credit)
Prerequisites:	Application process, interest in global business, students registering for IB Business HL must have completed the SL level
Immersion:	Chinese or Spanish Immersion students will have the opportunity to complete the semester-long company project in the target language in this course.

Course Description:
Students will have the opportunity to engage in a real-world experience in high-demand corporate environments where they can learn and grow in areas that may offer future employment opportunities. While in the corporate setting, students will spend both semesters working on a variety of industry-driven projects, solving business problems and learning about the challenges of project-based work.

Instructional Methods /Assessments:
Students will have three critical sources available to them at all times through the instructional process. This includes designated instructors, business mentors, and ongoing business projects. Content will include reading, writing and speaking, an orientation to business, guest instructors, AP and IB content, and individual project work. Assessments will include routine formative grading based on daily work, summative assessments, development of a business plan, and industry performance evaluations completed by business clients and instructors.

Recommended Background for Success:
Students applying for this course must have strong communication, leadership, problem-solving, time-management and creativity skills. They must be adaptable, confident, and motivated to collaborate with adults from the professional world as well as their peers. Students in this course will spend half of the school day off-campus in professional attire. Students should also expect summer reading.

AP Micro & Macroeconomics
Our focus in this course is on the fundamental concepts of economics and how they apply to global business. Students will also apply these concepts to authentic industry projects. Additionally, this course meets the requirements for Advanced Placement Microeconomics and Macroeconomics and prepares students for success on the AP exams. Economic topics covered include: supply and demand, firm behavior, market structure, market failure, the role of government, economic growth, inflation, unemployment, foreign trade, and monetary and fiscal policies. At the close of the academic year you will learn to "think like an economist." This course will provide you with the tools to understand the world from an economic perspective and to offer informed opinions on contemporary economic issues.

English & Advanced Research
This is a year-long course that focuses heavily on research (both primary and secondary), persuasive techniques, public speaking, and effective communication skills all within the context of the business world. The course is integrated with real-world projects that require students to research, understand, and propose solutions to problems. In addition, the course includes analysis of both fiction and nonfiction with particular emphasis on leadership, ethics, cultural communication, and rhetoric. Completion of both semesters fulfills a 1.0 English requirement.

IB Business Management SL
(HL also available to students)
IB Business Management is designed to give students an understanding of business principles, practices, and skills. Emphasis is also placed on understanding technical innovation and day-to-day business functions of operations management, marketing, human resource management, and finance. This course meets the requirements for and prepares students to be successful on the International Baccalaureate in Business and Management SL or HL exam, for which there is a fee.

DESIGN + MARKETING: COURSE INFORMATION

This course fulfills the Arts credit requirement.

Course #V104

Grades Offered:	11-12
Credits:	2.0 (1.0 Arts credit and 1.0 business elective credit)
Prerequisites:	Interest in advertising and/or graphic design or product/ industrial design. Application process.
Immersion:	Chinese or Spanish Immersion students will have the opportunity to complete the semester-long company project in the target language in this course.

Instructional Methods /Assessments:
Students will have four critical sources available to them at all times through the instructional process. This includes designated instructors from MHS, industry experts serving as guest instructors, business mentors, and ongoing business projects. Content will include a focus on building the visual language and verbal vocabulary necessary to analyze, support, and discuss interactive, graphic and industrial design, an orientation to business, guest instructors, and individual project work. Assessments will include routine formative grading based on daily work, summative assessments, and industry performance evaluations completed by business clients and instructors.

Recommended Background for Success:
Students applying for this course must have an interest in the field of design and be committed to learning about how the principles of design are applied in real world situations in the business and professional world. They must have strong communication, leadership, problem-solving, time-management, analytic and creativity skills. They must be adaptable, confident, and motivated to collaborate with adults from the professional world as well as their peers. Students in this course will spend two hours of the school day off-campus in professional attire.

Graphic & Product Design 1 & 2
In this course students will learn interactive, graphic and product design skills and how they are applied in the commercial world. The goal of this course brings together form and function to learn and create 2D and 3D products that are designed by combining materials, process, digital media and human factors. The course will bring together technology, creativity, marketing and communication strategies to connect to audiences locally and globally. Students will learn about market variables that impact products and how to skillfully design visual images to create a message

about products and services. Students will be paired with local, national, and international businesses in which they will assist in designing digital (websites, mobile sites, etc.) and print media resources (advertisements, logos, business cards and other collateral). Students take a lead role in planning, designing and presenting their work to colleagues and clients and function as a design consultant during the process. Students will work both on and off the computer to complete projects that explore basic 2D communication principles of integrating the art elements and principles, typography, dynamic design and photography to build a visual language. Students will develop an understanding of design thinking (empathize, define, ideate, prototype, test), and project outcomes will include a range of media including a final portfolio of work. Students will also learn how product designers study how people interact with their environment, problem solve design issues, usage, and production of services. Designers consider ways to create memorable and positive experiences for the people that use their products. The course will focus on a balance of technical instruction and studio work projects which include product and package design. Awareness of aesthetics, technical skills and analytical thought are cultivated and applied to focus on designing products that meet human needs. Students take a lead role in planning, designing and presenting their work to colleagues and clients and function as a design consultant during the process.

Marketing 1 & 2

In this course students will learn about the principles of marketing. Marketing is one of the most important functions in today's American and international companies. This course will provide students with an opportunity to learn techniques and concepts used in contemporary marketing. These concepts include: product development, personal selling, purchasing, product and service planning, distribution, promotions, market research, pricing, risk management, and customer service. Over the course of the year, students will use the principles learned in this course, together with the graphic and product design skills learned in the sister VANTAGE course, to learn how products are researched, developed, brought to market and marketed to the consumer. They will work on marketing projects for companies that apply this knowledge to real and relevant marketing challenges that will provide the student with a degree of applied knowledge in the field of marketing rarely seen at the high school level. This course is directly correlated with DECA activities at the high school.

HEALTH SCIENCES: COURSE INFORMATION

This course fulfills the Physical Education credit requirement.

Course #V200

Grade(s) offered:	11 or 12
Credits:	3.0 (1.0 social studies credit, 1.0 PE credit, 1.0 science elective credit)
Prerequisites:	Physical Science and Algebra; Chemistry is strongly recommended; interest in health sciences or sports medicine. Application process.

Course Description:

Students will have the opportunity to engage in a real-world experience in health sciences where they can learn and grow in areas that may offer future employment opportunities. Students will spend both semesters gaining experience with health sciences through site visits, clinical experiences and instruction by experts in these fields. Designed together with leaders from the health industry, students will have a firm understanding of the mind, body, and physical health of humans in relation to sports and science.

Instructional Methods /Assessments:

Students will have four critical sources available to them at all times through the instructional process. This includes designated MHS instructors, mentors, industry experts and project sponsors. Students will be both college and career ready with completion of specifically targeted curriculum and clinical projects. The course will include a variety of formative and summative assessments as well as real-world performance reviews completed by clients and instructors.

Recommended Background for Success:

Students applying for this course must have strong communication, leadership, problem-solving, time-management and creativity skills. They must be adaptable, confident, and motivated to collaborate with adults from the professional world as well as their peers. Students in this course will spend half of the school day off-campus in professional attire.

AP Psychology

The AP Psychology course integrates the mental health components such as the brain's influence/control of everyday activity, states of consciousness, learning, cognition, motivation, emotion, relationships, and the influence of social settings on behavior. Students will have the opportunity to take the AP exam at the end of the year. This course fulfills 1.0 credit in senior level Social Studies.

Exercise Science Fitness A

This course will lay the foundation for students to engage in a lifetime of physical activity. The course provides an introduction, instruction, and involvement in strength and resistance training and cardiovascular exercise utilizing a variety of training techniques. Students will learn to find and assess the importance of heart rate within the different zones Finding heart rate on a regular basis in order to execute a workout properly and gain the most cardiovascular benefit. Fitness assessment and goal setting will be emphasized. Topics include muscular fitness, cardiovascular fitness, flexibility, growth mindset and many more fitness related topics. Exercise Science Fitness A follows closely with IB Sports Exercise and Health Science (IB SEHS) to bring related topics to physical form to utilize psychomotor learning. This course fulfills .5 credit in Physical Education-Fitness A category.

Mental Health and Wellness B

This course is designed to enhance the students' well-being in the present and future by combining the benefits of exercise with a comprehensive self-directed approach to maintaining a healthy and well-balanced lifestyle. The Mental Health and Wellness B course will include yoga and recreational activities, such as individual and team sports, for health-related fitness. Topics include breathing techniques, nutrition, sleep, stress management, relaxation and fitness. The Mental Health and Wellness B course collaborates with AP Psychology to translate topics into physical activities. This course fulfills .5 credit in Physical Education-Wellness B category.

IB Sports Exercise and Health Science

The IB Sports Exercise and Health Science curriculum incorporates the disciplines of human anatomy and physiology and biomechanics with content in exercise physiology, skill in sport, measurement and evaluation of human performance, and nutrition. A combination of syllabus content and experimental work involving a group project and two independent investigations provides the opportunity for students to acquire the knowledge and understanding necessary to apply scientific principles and analyze human performance. Completion of both semesters fulfills 1.0 elective credit in Science. It is expected that students will take the IB exam, for which there is a fee.

GLOBAL FOOD SUSTAINABILITY: ECONOMICS AND THE ENVIRONMENT

Course: #V300

Grades Offered:	11 or 12
Credits:	2.0 (1.0 science credit and 1.0 social studies credit)
Prerequisites:	Students must have completed a Biology credit (Biology G, AP Biology or IB Biology SL), interest in sustainability. Application process.

Course Description:
Students will have the opportunity to engage in a real-world experience in the global food industry where they can learn and grow in areas that may offer future employment opportunities such as corporate sustainability, food security, safety and engineering. While in the corporate setting, students will spend both semesters working on a variety of industry-driven projects, solving research problems and learning about the challenges of project-based work. Students will also learn about the economics and policy implications of food sustainability and production, with an emphasis on the global nature of food and its impact on communities and the environment.

Instructional Methods /Assessments:
Students will have several sources available to them at all times through the instructional process. This includes designated MHS instructors from the two subject areas (math and social studies) as well as industry experts. Content will be delivered in a variety of ways including teacher instruction, online videos and simulations, guest instructors, individual and group project work, and optional participation in national and international science research competition. Assessments will include routine formative grading based on daily work and experiences and development of lab research projects. Summative grade will be based on unit tests, laboratory results/analyses and project performance evaluations completed by food industry professionals and instructors.

Recommended Background for Success:
Students applying for this course must have completed general level, AP or IB Biology and must have the desire to participate in individual and group research projects while improving strong communication, leadership, problem-solving, time-management and creativity skills. They also must be adaptable, confident, and motivated to collaborate with peers and adults from the scientific and professional world. Students will spend two hours of the school day off-campus in professional attire.

AP Environmental Science
AP Environmental Science is a course focusing on the relationships between humans and the natural environment. This course's mission is to prepare students with the knowledge and skills to identify, analyze, and resolve environmental issues from an interdisciplinary perspective. This course will stress scientific literacy through application of problem-solving skills while encouraging reflection in the social sciences to broaden student perception of our role in the environment. Topics include earth science, ecology, population dynamics, land and water use, the future of foods, energy resources, pollution, and global change. AP Environmental Science is designed to be the equivalent of a one semester, introductory college course in environmental science. Instruction consists of flipped lectures, online group collaborations, taped demonstrations, and written assignments—including research projects, online class assignments, and homework. A minimum of 2-3 weeks per each quarter is devoted to hands-on laboratory experiences/field work and/or statistical analysis of data. Students who elect this course are expected to take the AP exam, for which there is a fee.

Global Studies and Economics
This course covers economic concepts through the prism of food sustainability and international issues. Economic concepts include: Microeconomics which is the study of businesses, markets, and households; Macroeconomics which is the study of the U.S. economy and how it relates to other economies; Personal Finance where students learn skills for successful personal financial management. Instructional Methods/Assessments: Instructional methods include simulations, lectures, discussions, research, group projects, and written assignments. Assessments include daily work, tests, quizzes and projects.

DIGITAL JOURNALISM: COURSE INFORMATION

Course #V600

Grade(s) offered:	11 or 12
Credits:	2.0 (1.0 required English credit and 1.0 Arts credit)
Prerequisites:	Application process, interest in broadcasting and journalism

Course Description:
Digital Journalism offers students a laboratory experience in writing and delivering copy for radio and television while developing critical thinking skills. Students will learn about the entire broadcast journalism production cycle from pre-production through storytelling, concepting, storyboarding, scripting, treatments and pitches to final production and editing. The course includes audio and video tapings of students delivering podcasts, commercials, interviews, and public service announcements related to Minnetonka, community and local business events.

Instructional Methods /Assessments:
Students will have four critical sources available to them at all times through the instructional process. This includes designated instructors from MHS, industry experts serving as guest instructors, industry mentors, and project sponsors. Both content and performance are evaluated. Content will include reading, writing and speaking, an orientation to media marketing, guest instructors, video production skills, and project work. Assessments will include routine formative grading based on daily work, summative assessments and industry performance evaluations.

Recommended Background for Success:
To be successful in this course, students will need to demonstrate an interest and an aptitude for journalism, marketing, and broadcasting. Students applying for this course must have strong communication, leadership, problem-solving, time-management and creativity skills. They also must be adaptable, confident, and motivated to collaborate with adults from the professional world as well as their peers. Students in this course will spend two hours of the school day off-campus in professional attire. They will also be required to attend various Minnetonka events throughout the school year.

Video Production
Students will produce high quality video content and will gain the practical skills for success in the world of broadcast video production. Students will learn to frame, film, and edit activities as well as find and tell the story of the events they are presenting. Final Cut Pro X and other professional editing software will be learned and used. Students will learn how to run a digital screen network including topics such as customer engagement, playlist management, segmentation and encoding.

Digital Journalism and Investigative Research
This course expects students to demonstrate effective communication skills in community and work settings. The primary focus is journalism in the digital age. This includes the use of digital technologies to research, produce, and communicate information to 21st century audiences using various online platforms including blogs, podcasts, web stories, social media and multi-platform media. Students will analyze effective communication, solve problems, participate in dialogue, and reflect on their communication practices and observations. Emphasis is on effective speaking and listening. Students will learn industry standards for broadcast journalism and will demonstrate skills in the reading, writing, listening and speaking standards required in English/Language Arts courses. Students will also initiate interview questions, write copy, and complete relevant research while meeting high journalistic standards. Completion of both semesters fulfills a 1.0 English requirement.

World Languages

A student may begin or continue the study of world languages at Minnetonka High School. French, German, Chinese, American Sign Language and Spanish are offered in all grades. Chinese, French, Spanish and German students who have successfully completed level I in 8th grade should register for Chinese II, French II G or II Honors, German II or Spanish II G or II Honors. Students should speak with their current world language teacher for placement guidance. Because of the larger enrollments in French and Spanish levels II-IV, there is an accelerated course option, denoted by an "Honors" and a general level course option, denoted by a "G."

Students will not be allowed to switch from accelerated classes to regular classes, or vice versa, without teacher's approval. The World Languages Department has clear guidelines that must be met before any changes can occur. For further information, please speak with your current teacher. International Baccalaureate (IB) Language B Standard Level (SL) and IB Higher Level (HL) is offered in Chinese, French, German and Spanish at level 4 and 5. Students entering Minnetonka High School from other school districts and/or international study or unique programs should consult with the World Language department chairperson to determine the correct placement and possible credit for previous study/experience. All world language courses are iPad integrated.

Students planning to attend a college or university can often satisfy their college admission and/or graduation requirements by taking world language courses during high school. All world language courses are electives.

Minnetonka has the state's premier Language Immersion program for Chinese and Spanish. Immersion continuation includes courses taught in both the World Language Department and Social Studies courses taught in the target language. See page 132 for more details.

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	3300 3301 T422* T423*	French I, S1 French I, S2 French I, part 1, Tonka Online *Select Term: T422S / T422F / T422W French I, part 2, Tonka Online *Select Term: T423S / T423F / T423W	None	9-12
.5 .5	3302 3303	French II G, S1 French II G, S2	French I	9-12
.5 .5	3308 3309	French II Honors, S1 French II Honors, S2	French I	9-12
.5 .5	3304 3305	French III G, S1 French III G, S2	French II G or French II Honors	10-12
.5 .5	3310 3311	French III Honors, S1 French III Honors, S2	French II Honors or French II G with permission from teacher	10-12
.5 .5	3306 3307	French IV G, S1 French IV G, S2	French III G or French III Honors	11-12
.5 .5	3316 3318	French IV Honors, S1 French IV Honors, S2	French III Honors or French III with permission from teacher	11-12
.5 .5	3320 3321	French V G, S1 French V G, S2	French IV G or French IV Honors	12
.5 .5	AP500 AP502	AP French V, S1 AP French V, S2	French IV Honors	12
.5 .5	IB208 IB210	IB French SL, S1 IB French SL, S2	French III Honors	11-12
.5 .5	IB212 IB214	IB French HL, S1 IB French HL, S2	IB French SL	12
.5 .5	IB332 IB334	IB Ab Initio French, Year 1, S1 IB Ab Initio French, Year 1, S2	None; year-long course	11-12
.5 .5	IB336 IB338	IB Ab Initio French, Year 2, S1 IB Ab Initio French, Year 2, S2	IB Ab Initio French Year 1	12
.5 .5	IB340 IB342	French for the 3rd Language Learner (FTL), Year 1, S1 French for the 3rd Language Learner (FTL), Year 1, S2	K-8 language immersion or successful in prior language learning. World Language teacher recommendation.	9-12
.5 .5	IB344 IB346	French for the 3rd Language Learner (FTL), Year 2, S1 French for the 3rd Language Learner (FTL), Year 2, S2	French for the 3rd Language Learner (FTL) Year 1	9-12

World Languages

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	3400 3401	German I, S1 German I, S2	None	9-12
.5 .5	3402 3403	German II, S1 German II, S2	German I	9-12
.5 .5	3404 3405	German III, S1 German III, S2	German II	10-12
.5 .5	IB224 IB226	IB German SL, S1 IB German SL, S2	German III	11-12
.5 .5	IB228 IB230	IB German HL, S1 IB German HL, S2	IB German SL	12
.5 .5	IB300 IB302	IB Ab Initio German, Year 1, S1 IB Ab Initio German, Year 1, S2	None	11-12
.5 .5	IB304 IB306	IB Ab Initio German, Year 2, S1 IB Ab Initio German, Year 2, S2	IB Ab Initio German Year 1	11-12
.5 .5	IB308 IB310	German for the 3rd Language Learner (GTL), Year 1, S1 German for the 3rd Language Learner (GTL), Year 1, S2	K-8 language immersion or successful in prior language learning. World Language teacher recommendation.	9-12
.5 .5	IB312 IB314	German for the 3rd Language Learner (GTL), Year 2, S1 German for the 3rd Language Learner (GTL), Year 2, S2	German for the 3rd Language Learner (GTL) Year 1	9-12
Spanish Immersion Continuation see page 132				
.5 .5	3500 3501 T400* T401*	Spanish I, S1 Spanish I, S2 Spanish I, part 1, Tonka Online *Select Term T400S / T400F / T400W Spanish I, part 2, Tonka Online *Select Term T401S / T401F / T401W	None	9-12 9-12
.5 .5	3520 3521	Accelerated Spanish Levels I and II, S1 Accelerated Spanish Levels I and II, S2	None; however, we recommend prior language experience in Spanish and/or another language.	9-12
.5 .5	3502 3503	Spanish II G, S1 Spanish II G, S2	Spanish I	9-12
.5 .5	3508 3509	Spanish II Honors, S1 Spanish II Honors, S2	Spanish I	9-12
.5 .5	3504 3505	Spanish III G, S1 Spanish III G, S2	Spanish II G or Spanish II Honors	9-12
.5 .5 .5 .5	3510 3511 T406* T407*	Spanish III Honors, S1 Spanish III Honors, S2 Spanish III Honors, part 1, Tonka Online *Select Term T406S / T406F / T406W Spanish III Honors, part 2, Tonka Online *Select Term T407S / T407F / T407W	Spanish II Honors	9-12
.5 .5	3506 3507	Spanish IV G, S1 Spanish IV G, S2	Spanish III G or Spanish III Honors	11-12
.5 .5	3516 3517	Spanish IV Honors, S1 Spanish IV Honors, S2	Spanish III Honors	11-12
.5 .5	3518 3519	Spanish V G, S1 Spanish V G, S2	Spanish IV G or Spanish IV Honors	12
.5 .5	AP504 AP506	AP Spanish V Language & Culture, S1 AP Spanish V Language & Culture, S2	Spanish IV Honors	12
.5 .5	IB272 IB274	IB Spanish SL, S1 IB Spanish SL, S2	Spanish III Honors or Spanish IV G	11-12
.5 .5	IB276 IB278	IB Spanish HL, S1 IB Spanish HL, S2	IB Spanish SL	12

World Languages

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	IB316 IB318	IB Ab Initio Spanish Year 1, S1 IB Ab Initio Spanish Year 1, S2	None	11-12
.5 .5	IB320 IB322	IB Ab Initio Spanish Year 2, S1 IB Ab Initio Spanish Year 2, S2	IB Ab Initio Spanish Year 1	12
.5 .5	IB324 IB326	Spanish for the 3rd Language Learner (STL), Year 1, S1 Spanish for the 3rd Language Learner (STL), Year 1, S2	K-8 language immersion or successful in prior language learning. World Language teacher recommendation.	9-12
.5 .5	IB328 IB330	Spanish for the 3rd Language Learner (STL), Year 2, S1 Spanish for the 3rd Language Learner (STL), Year 2, S2	Spanish for the 3rd Language Learner Year 1	9-12
Chinese Immersion Continuation see page 132				
.5 .5	3600 3602	Chinese I, S1 Chinese I, S2	None	9-12
.5 .5	3608 3610	Chinese II, S1 Chinese II, S2	Chinese I	9-12
.5 .5	3612 3614	Chinese III, S1 Chinese III, S2	Chinese II	9-12
.5 .5	3616 3618	Chinese IV, S1 Chinese IV, S2	Chinese III	9-12
.5 .5	3620 3622	Chinese V, S1 Chinese V, S2	Chinese IV	12
.5 .5	IB200 IB202	IB Chinese SL, S1 IB Chinese SL, S2	Chinese IV	11-12
.5 .5	IB204 IB206	IB Chinese HL, S1 IB Chinese HL, S2	IB Chinese SL	12
.5 .5	3800 3801	American Sign Language I, S1 American Sign Language I, S2	None	9-12
.5 .5	3802 3803	American Sign Language II, S1 American Sign Language II, S2	ASL I	9-12
.5 .5	3804 3805	American Sign Language III, S1 American Sign Language III, S2	ASL II	11-12
.5 .5	3806 3807	American Sign Language IV, S1 American Sign Language IV, S2	ASL III	12

FRENCH I

Course #3300, S1
Course #3301, S2

Course #T422*, part 1, Tonka Online
Course #T423*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students will learn common and useful expressions, vocabulary, and grammatical structures in the present tense and near future. They will develop their skills in listening and understanding, speaking, reading and writing. In addition, students learn about French culture via songs, films and other sources. They will become familiar with the French speaking world, as well as the monuments and places of Paris.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/oral practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

FRENCH II G

Course #3302, S1
Course #3303, S2

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: French I

Course Description:
Students in this course will build upon their knowledge of basic structures learned in French I. Vocabulary development is designed to allow students to communicate effectively on everyday topics. Several new irregular verbs are introduced. Students work with the present and one past tense. Continued attention is given to the skills of comprehension, speaking, reading, and writing. Students will study various aspects of French culture and geography.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have the ability to conjugate regular verbs in the present tense, avoir, etre, faire and aller conjugations (present tense), basic negations, use of basic adjectives, vocabulary and expressions from level 1, and familiarity with the pronunciation of the language.

FRENCH II HONORS

Course #3308, S1
Course #3309, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: French I

Course Description:
Students in this course will continue the course of study began in Level 1 with an emphasis on interactive communication in everyday situations. Students will learn new vocabulary and idiomatic expressions and work with five verb tenses—present, passé, composé, imperfect, future and conditional. Cultural topics are introduced throughout the year. For example, daily life in French households and French society as well as geography.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have the ability to conjugate regular -er verbs: avoir, etre, faire, prendre, mettre, aller and voir conjugations (present tense); familiarity with the future proche & basic negations, use of basic adjectives, vocabulary & expressions from level 1; and familiarity with the pronunciation of French.

FRENCH III G

Course #3304, S1
Course #3305, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: French II G or French II Honors with permission from teacher

Course Description:
Students will continue to study the fundamentals of French by increasing their knowledge of vocabulary, verbs and other grammatical aspects. Students continue to work with the present, past and near future tenses with increased emphasis on oral use. Students learn imperfect, future and conditional tenses. Emphasis placed on speaking in French as much as possible focusing on correct use of object pronouns. Students will study cultural variation of France and Quebec and also explore French food.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:
Basic oral and written comprehension of present, past, and future verb tenses; grammatical structures taught in French 2; and advanced vocabulary for speaking and writing.

FRENCH III HONORS

Course #3310, S1
Course #3311, S2
Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: French II Honors or French II G with permission from teacher

Course Description:
Students will continue the study of the fundamentals of French. An emphasis is placed on students' development of communication skills and increasing their fluency in the language. Also, included throughout the year are popular music, film and discussions.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have conversational ability, effective study skills and a working vocabulary for practical, everyday situations and idiomatic expressions.

FRENCH IV G

Course #3306, S1
Course #3307, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: French III G or French III Honors

Course Description:
Students in this course will work to solidify grammatical concepts studied thus far with an emphasis on more flexible speaking and writing styles. Reading of authentic short stories are key to improving communication beginning with very short excerpts and gradually lengthening to one full-sized novel. French IVG attempts to make the student comfortable with his/her ability to communicate in the French-speaking world including those in North America and Africa.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have a working knowledge of present, past (2 past tenses), future. Conditional verb tenses, grammatical structures taught in French III, and extensive vocabulary background to use in speaking and writing.

FRENCH IV HONORS

Course #3316, S1
Course #3318, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: French III Honors or French III with permission from teacher

Course Description:
Students in this course are expected to use French as the main mode of communication. This course is conducted in French. Students work with and discuss songs, poetry, short stories and movies. Throughout the year students write essays and complete oral presentations. Listening exercises, vocabulary building activities, and a thorough grammar review prepare the student for future studies at the university level.

World Languages

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have prior study of all tenses except the subjunctive; grammatical structures taught in French III Honors; the ability to sustain a conversation on a variety of topics and be able to react to ideas and offer opinions.

FRENCH V G

Course #3320, S1
Course #3321, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: French IV G or French IV Honors

Course Description:
Students will continue to work on their oral and written communication skills learned in prior years of study. Students will study many different aspects of French culture through current events, movies, magazines, and short stories. This course, conducted primarily in French, will refine all previously learned grammatical concepts. Students will use French every day, working towards their best possible fluency.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:
Students should have good study habits and self-discipline.

AP FRENCH V

Course #AP500, S1
Course #AP502, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: French IV Honors

Course Description:
The AP French Language and Culture course is designed around six curricular themes which provide a cultural context around which language concepts can be explored. They are Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. The course provides students with opportunities to connect with Francophone culture using the three modes of communication (interpersonal, interpretive, and presentational) in a variety of tasks, as described in the AP Curriculum Framework. In each unit students examine historical and modern contexts to demonstrate and increase their understanding of cultural products, practices and perspectives of the French-speaking world. Throughout the course students will make comparisons between and within languages and cultures. Basic and advanced grammar is reviewed throughout the course when appropriate to the communicative task, however it is not the basis of any particular unit. Each unit is designed to help students succeed on the different sections of the Advanced Placement exam. It is expected that students who register for this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include student and teacher led conversations, paired and small group activities, writing assignments (in alignment with AP standards), listening exercises, songs, films, and oral presentations. Assessments include oral and written assessments, listening exercises, homework and special projects. A variety of AP related assessments are used in preparation for the AP exams in the spring.

Recommended Background for Success:
Students must have completed French IV Honors with a high level of success. Students wishing to take V AP that are not coming from the IV Honors course may do so with permission from the instructor only.

IB FRENCH SL

Course #IB208, S1
Course #IB210, S2
Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: French III Honors

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB FRENCH HL

Course #IB212, S1
Course #IB214, S2
Grade(s) offered: 12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: IB French SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB AB INITIO – FRENCH

Course #IB332, Year 1, S1
Course #IB334, Year 1, S2
Course #IB336, Year 2, S1
Course #IB338, Year 2, S2
Grade(s) offered: 11-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisites: None

Course Description:
IB Ab Initio is a highly rigorous two-year program for juniors and seniors. It is designed to give students with little or no prior French language experience IB language acquisition credit. This

course fulfills the needs of students who wish to earn an IB diploma or certificate credit but who did not start their language learning as underclassmen.

The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced, two-year course will cover the traditional scope of French I, II Honors, and III Honors.

In year two, students will complete a series of tests that measure their speaking, writing, listening, and reading capabilities that are assessed by their teacher and/or the IB organization. Ab Initio students are expected to take the Standard Level IB Exam, for which there is a fee.

FRENCH FOR THE 3RD LANGUAGE LEARNER (FTL)

Course #IB340, Year 1, S1
Course #IB342, Year 1, S2
Course #IB344, Year 2, S1
Course #IB346, Year 2, S2

Grade(s) offered: 9-12
Credits: 2 (two-year course)
.5 (per semester)

Prerequisite: K-8 Language Immersion or students who have been successful in their prior language learning. Students will need to submit a recommendation written by a previous second language teacher (Spanish, German, Chinese, etc.). Though this is designed as a two-year course, seniors who meet the prerequisite are able to take this course for one year.

Course Description:

This two-year course is designed specifically for students who are literate in a second language.

The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced, two-year course will cover the traditional scope of French I, II Honors, and III Honors.

GERMAN I

Course #3400, S1
Course #3401, S2

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: No previous experience needed.

Course Description:

Students will develop proper pronunciation along with appropriate listening, reading, writing and speaking skills. Fundamental grammar learned in German I, such as gender and case of nouns, and conjugation of verbs in the present tense, provides for successful continued study of the language. Emphasis is on communication using the grammar, cultural themes and vocabulary of each unit in the text series. German is used during much of the class and more is spoken and encouraged as the year progresses.

Instructional Methods/Assessments:

Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:

Students should have good study habits and self-discipline.

GERMAN II

Course #3402, S1
Course #3403, S2

Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: German I or with permission from teacher

Course Description:

Students in this course will continue to develop their communication skills in listening, reading, writing and speaking German. Grammar study continues to build upon fundamentals learned in German I and expands to increase the students' proficiency in the uses of the different cases and past tenses. Cultural themes of each unit in the text series assure student acquisition of vocabulary necessary to communicate about everyday, common themes of interest to students. German is used during much of the class, and more is spoken and encouraged as the year progresses.

Instructional Methods/Assessments:

Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, special projects and class participation.

Recommended Background for Success:

Students should have basic vocabulary, present tense of verbs, basic syntax and grammar and knowledge of accusative case.

GERMAN III

Course #3404, S1
Course #3405, S2

Grade(s) offered: 10-12
Credits: .5 (per semester)
Prerequisites: German II or with permission from teacher

Course Description:

German III is for motivated students who want to achieve a higher level of proficiency in the German language. Students continue to learn more advanced grammatical structures built upon the foundations laid in German I and II. Emphasis is placed upon developing more advanced oral and written communication skills. The textbook is supplemented by additional readings, listening activities, various projects. German is the primary language in the classroom.

Instructional Methods/Assessments:

Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:

Mastery of content in German II, high motivation, excellent study habits, and self-discipline.

IB GERMAN SL

Course #IB224, S1
Course #IB226, S2

Grade(s) offered: 11-12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: German III

Course Description:

Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and

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vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB GERMAN HL

Course #IB228, S1
Course #IB230, S2
Grade(s) offered: 12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: IB German SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB AB INITIO GERMAN

Course #IB300, Year 1, S1
Course #IB302, Year 1, S2
Course #IB304, Year 2, S1
Course #IB306, Year 2, S2
Grade(s) offered: 11-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisites: None

Course Description:
IB Ab Initio is a highly rigorous two-year program for juniors and seniors. It is designed to give students with little or no prior German language experience IB language acquisition credit. This course fulfills the needs of students who wish to earn an IB diploma or certificate credit but who did not start their language learning as underclassmen.

The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced, two-year course will cover the traditional scope of German I, II, and III. In year two, students will complete a series of tests that measure their speaking, writing, listening, and reading capabilities that are assessed by their teacher and/or the IB organization. Ab Initio students are expected to take the Standard Level IB Exam, for which there is a fee.

GERMAN FOR THE 3RD LANGUAGE LEARNER (GTL)

Course #IB308, Year 1, S1
Course #IB310, Year 1, S2
Course #IB312, Year 2, S1
Course #IB314, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisite: K-8 Language Immersion enrollment or students who have been successful in their prior language learning. Students will need to submit a recommendation written by a previous second language teacher (Spanish, French, Chinese, etc.). Though this is designed as a two-year course, seniors who meet the prerequisite are able to take this course for one year.

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn German as a third language.

The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of German I, II, and III. Upon successful completion of this two-year course, students may register for IB German SL.

SPANISH I

Course #3500, S1
Course #3501, S2
Course #T400*, part 1, Tonka Online
Course #T401*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students in this course will begin with the basic fundamentals of Spanish. Basic practical vocabulary and sentence structure in the present and immediate future tenses are introduced throughout the year. Two important elements in the classroom are the teacher's use of spoken Spanish and the students' development of good listening skills and pronunciation. Culture is also studied through songs, current events, and movies. Skits, dialogues, games, and videos are used to supplement the text and foster increased language ability.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/oral practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments: Oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have good daily study skills and the ability to memorize.

ACCELERATED SPANISH LEVELS I AND II

Course #3520, S1
Course #3521, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None; however, we recommend prior language experience in Spanish and/or another language.

Course Description:
This is a fast-paced, year-long course that will cover the traditional scope of Spanish I and II. This course is designed to provide students with the opportunity for an individualized path that would allow them to move at their own pace. Students will work to develop speaking, listening,

reading and writing in the target language. This course will begin with the fundamentals of Spanish, including basic practical vocabulary and sentence structure in the present and immediate future tense. Students will continue to study both the preterit and the imperfect past tenses as well as familiar commands. Upon completion of this course, students will be able to enroll in Level III or Level III Honors.

Instructional Methods/Assessments:
Class/teacher interactive practice, paired activities, small group activities, writing assignments such as skits and compositions, games, listening exercises including authentic audio, songs, movies, and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:
We recommend prior language experience in Spanish and/or another language. Students should also be self-motivated and have the desire to work at a fast pace.

SPANISH II G

Course #3502, S1
Course #3503, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Spanish I

Course Description:
Students in Spanish II will continue to study pronunciation, vocabulary and sentence structure. In addition to reviewing the present and immediate future tenses, the preterite tense and the progressive tense are presented. Indirect, direct and reflexive objects are presented. Students continue to work on good pronunciation by listening to authentic audio, songs, and supplementary materials. Structured compositions, dialogues and projects are written and presented by students.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive practice, paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including authentic audio, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

SPANISH II HONORS

Course #3508, S1
Course #3509, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Spanish I

Course Description:
Students in this course continue to study the fundamentals of the language. In addition to reviewing the present and simple future, the class covers preterite, imperfect, familiar commands and present progressive. Indirect, direct and reflexive objects are also presented. This is accomplished by a variety of listening, speaking, reading, and writing activities such as songs, paired and small group work, readings, compositions, and original skits.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and movies, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should demonstrate mastery of present tense, immediate future, thematic vocabulary, and possess good daily study and memorization skills.

SPANISH III G

Course #3504, S1
Course #3505, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Spanish II G or Spanish II Honors

Course Description:
Students continue to review present and preterite tenses. Students will learn the imperfect, progressive, present perfect and commands. Students work with these tenses through a variety of listening, speaking, reading and writing activities including small group and paired work, songs, readings, and compositions. Class is conducted mostly in Spanish and students are expected to speak Spanish as much as possible to develop their oral skills. Culture is presented through films, music, slide presentations, and projects. Reading is furthered through cultural selections and short stories.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should understand the present and preterite tenses, have basic knowledge of sentence structure, and demonstrate effective study and memorization skills.

SPANISH III HONORS

Course #3510, S1
Course #3511, S2
Course #T406*, part 1, Tonka Online
Course #T407*, part 2, Tonka Online
***Select term S=summer, F=fall, W=winter**
***Online, complete part 1 before part 2.**
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Spanish II Honors

Course Description:
Students are expected to use Spanish as much as possible as the instructor presents most material in Spanish. The course includes a comprehensive review of commands and all verb tenses previously studied. Students learn compound verb tenses and the present subjunctive (forms and basic uses). There is continued emphasis on both oral and written skills. Students learn songs, write compositions and create and perform skits. Emphasis is placed on literature throughout the year by reading poetry and short stories, as well as articles on current and cultural events.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive drill/practice, paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have an understanding of verbs in the present, preterite, imperfect and command forms. They should be able to use these verb forms in basic Spanish conversation along with accurate grammar and a reasonable amount of common vocabulary.

SPANISH IV G

Course #3506, S1
Course #3507, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: Spanish III G or Spanish III Honors

Course Description:
Students work to improve oral communication skills by using Spanish as much as possible. The course, conducted in Spanish, is a review of all grammatical concepts studied thus far with an emphasis on more flexible speaking and writing styles. Spanish IV attempts to make the student comfortable with his/her ability to communicate in a Hispanic culture. Additional literary and cultural studies/projects are involved.

Instructional Methods/Assessments:
Instructional methods include class/teacher

interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should demonstrate mastery of basic grammatical structures presented in Spanish III, including present preterite, imperfect, future and conditional tenses, sentence structure, and the ability to communicate at a basic level.

SPANISH IV HONORS

Course #3516, S1
Course #3517, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Spanish III Honors

Course Description:
Students in this course are expected to use Spanish at all times in order to improve their oral ability. The course is taught, exclusively, in Spanish. Coursework involves an advanced study and review and mastery of grammatical concepts covered thus far. Further literary study and advanced composition work are included and culminate in the reading of a major dramatic work and a research paper. Several projects are also assigned throughout the year to foster the creative use of the language. This course is designed to prepare students for studies at the university level.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have prior study of all conversational tenses taught at the Spanish III Honors level as well as a desire to improve one's Spanish ability.

SPANISH V G

Course #3518, S1
Course #3519, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Spanish IV G or Spanish IV Honors

Course Description:
Students in this course are expected to use Spanish at all times in order to improve their oral ability. The course is taught almost exclusively in Spanish. Literature and composition will be emphasized along with a comprehensive review of grammar and verb tenses. The culture will be explored through articles, literature, movies and short stories.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive drill/practice, paired activities, small group activities, writing assignments, games, listening exercises, songs, films and oral presentations. Assessments include oral and written assessments, listening exercises, homework and special projects.

Recommended Background for Success:
Students must have completed Spanish IV with a moderate level of success.

AP SPANISH V LANGUAGE & CULTURE

Course #AP504, S1
Course #AP506, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Spanish IV Honors

Course Description:
The AP Spanish Language and Culture course is designed around six curricular themes which provide a context around which language concepts can be explored. They are Global Challenges/Los desafíos mundiales, Science and Technology/La ciencia y la tecnología, Contemporary Life/La vida contemporánea, Personal and Public Identities/Las identidades personales y públicas, Families and Communities /Las familias y las comunidades, and Beauty and Aesthetics/La belleza y la estética. The course provides students with opportunities to connect with Hispanic culture using the three modes of communication (interpersonal, interpretive, and presentational) in a variety of tasks, as described in the AP Curriculum Framework. In each unit students examine historical and modern contexts to demonstrate and increase their understanding of cultural products, practices and perspectives of the Spanish-speaking world. Throughout the course students will make comparisons between and within languages and cultures. Basic and advanced grammar is reviewed throughout the course, and time is spent during each unit preparing students for the Advanced Placement exam in May. It is expected that students electing this course will take the AP Exam, for which there is a fee.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive drill/practice, paired activities, small group activities, Audacity, writing assignments (in alignment with AP standards) games, listening exercises, songs, films and oral presentations. Assessments include oral and written assessments, listening exercises, homework and special projects. A variety of AP related assessments are used in preparation for the AP exams in the spring.

Recommended Background for Success:
Students must have completed Spanish IV Honors or IB Spanish SL with a high level of success. Students wishing to take V AP that are not coming from the IV Honors course may do so with permission from the instructor only.

IB SPANISH SL

Course #IB272, S1
Course #IB274, S2
Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
.5 (per semester)
Prerequisites: Spanish III Honors or Spanish IV G

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

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IB SPANISH HL

Course #IB276, S1
Course #IB278, S2
Grade(s) offered: 12
Credits: 1.0 (year-long course)
.5 (per semester)
Prerequisites: IB Spanish SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB AB INITIO SPANISH

Course #IB316, Year 1, S1
Course #IB318, Year 1, S2
Course #IB320, Year 2, S1
Course #IB322, Year 2, S2
Grade(s) offered: 11-12
Credits: 2.0 (two-year course)
.5 (per semester)

Course Description:
IB Ab Initio is a highly rigorous two-year program for juniors and seniors. It is designed to give students with little or no prior Spanish language experience IB language acquisition credit. This course fulfills the needs of students who wish to earn an IB diploma or certificate credit but who did not start their language learning as underclassmen. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of Spanish I, II Honors, and III Honors.

In year two, students will complete a series of tests that measure their speaking, writing, listening, and reading capabilities that are assessed by their teacher and/or the IB organization. Ab Initio students are expected to take the Standard Level IB Exam, for which there is a fee.

SPANISH FOR THE 3RD LANGUAGE LEARNER (STL)

Course #IB324, Year 1, S1
Course #IB326, Year 1, S2
Course #IB328, Year 2, S1
Course #IB330, Year 2, S2
Grade(s) offered: 9-12
Credits: 2.0 (two-year course)
.5 (per semester)
Prerequisite: K-8 language immersion or students who have been successful in their prior language learning. Though this is designed as a two-year course, seniors who meet the prerequisite are able to take this course for one year.

Course Description:
This two-year course is designed specifically for students who are literate in a second language. The course is comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced, two-year course will cover the traditional scope of Spanish I, II Honors, and III Honors. Upon successful completion of this two-year course, students may register for IB Spanish SL, Spanish IV Honors, or Spanish 4 General.

CHINESE I

Course #3600, S1
Course #3602, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students in this course will begin a sequence that will enable them to speak, read, write, and understand the spoken word of the official Mandarin Chinese language. The students will learn Pin-Yin (the phonetic system) and the writing of Chinese characters. There will be much time devoted to pronunciation, radical and character recognition, basic vocabulary, and sentence structure building. Students will learn to express themselves and understand others on topics closely related to their own experience and their daily life. In addition, the course will help students to understand the culture and heritage of approximately one fifth of the world's population.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:
Students should have a strong desire to learn the Chinese language.

CHINESE II

Course #3608, S1
Course #3610, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Chinese 1

Course Description:
Students will begin by reviewing skills learned in Chinese 1. They will be able to demonstrate mastery for both pronunciation and spelling of all Chinese syllables. Students will learn how to compare and contrast, to talk about when and how things are happening, have happened, or will happen, give more complex descriptions and commands and begin to support arguments. Students will develop a familiarity with different types of language discourse forms. Also, they will learn to read and write in PinYin and characters about the topics learned. Students will learn how to use Chinese-English dictionaries efficiently.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/oral practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films and oral presentations. Assessments include oral and written tests, listening exercises, homework and special projects.

Recommended Background for Success:
Students should have successfully completed Chinese I.

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CHINESE III

Course #3612, S1
Course #3614, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Chinese II

Course Description:
Students will continue practice in the four skill areas of listening, speaking, reading, and writing. They will expand their speaking and listening skills by concentrating on the ability to express more complete arguments and to understand and produce longer narratives in Chinese. They will practice listening to stories that involve a number of activities in sequence and descriptions of more complex situations. Students will continue to read Chinese passages in characters to practice newly acquired vocabulary and language patterns. Students will develop a familiarity with more discourse forms, such as advice, requests, instructions, numerical facts, letters, diary entries, idioms, and plays.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have successfully completed Chinese II.

CHINESE IV

Course #3616, S1
Course #3618, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: Chinese III

Course Description:
Students will learn more Chinese characters and will develop the abilities to express themselves at greater length with more fluency. Students will study articles, short stories, songs, idioms, plays, and advertisements. More flexible speaking, composition writing, and independent reading will be emphasized.

Instructional Methods /Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities, small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include oral and written tests, listening exercises, homework, and special projects.

Recommended Background for Success:
Students should have successfully completed Chinese III.

CHINESE V

Course #3620, S1
Course #3622, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: Chinese IV

Course Description:
Chinese V is a continuation of Chinese IV. It will help students to raise their Chinese language proficiency and the cultural awareness. The course is designed to further develop the students' four language skills: listening, speaking, reading and writing by concentrating upon their ability to understand and express complex ideas orally and in written compositions. The students will learn advanced grammar, complex structures and idioms, poems and some Chinese literature.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill), paired activities, small group activities, video presentations, games and role play dialogs. Assessments include receptive and expressive tests, homework, special projects and storytelling.

Recommended Background for Success:
Students should be able to recall basic vocabulary and sentence structure. Students should use Chinese on a daily basis to help them be successful in the language.

IB CHINESE SL

Course #IB200, S1
Course #IB202, S2
Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
.5 (per semester)
Prerequisites: Chinese IV

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

IB CHINESE HL

Course #IB204, S1
Course #IB206, S2
Grade(s) offered: 12
Credits: 1 (year-long course)
.5 (per semester)
Prerequisites: IB Chinese SL

Course Description:
Students in the IB program will work to comprehend and express sophisticated ideas in both written and oral discourse in the target language. The immersion setting allows plenty of opportunity for students' oral skills to be honed and assessed on a regular basis. Magazine, journal and newspaper articles, Internet news reports, and literary selections provide a platform for class and small group discussion of ideas of interest to young people and relevant to students and citizens of the world. Students will learn all the grammatical concepts, tenses of verbs and vocabulary as in the non-IB classes, but will learn much more in-depth vocabulary and have more practice in speaking, reading and writing. The IB exams are comprised of reading comprehension exercises, an essay section which allows students to demonstrate mastery of grammatical structures, knowledge of vocabulary, and cultural conventions of the target language; and two oral assessments, one prepared well in advance and one improvised after a short preparation period. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

AMERICAN SIGN LANGUAGE I

Course #3800, S1
Course #3801, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: None

Course Description:
Students in this course are introduced to American Sign Language and Deaf culture, focusing on frequently used signs, basic rules of grammar, introductory finger spelling, and non-manual aspects of ASL (e.g., facial expressions.). Upon completion of the course, students will be able to demonstrate a beginning conversational level of comprehension when receiving ASL and a beginning level of expressive fluency when using ASL. This course incorporates many experimental activities and successful second language acquisition among students with a variety of learning styles.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill/or practice), paired activities,

small group activities, writing assignments (such as compositions and skits), games, listening exercises including tapes, songs and films, and oral presentations. Assessments include expression and receptive tests, homework and special projects.

Recommended Background for Success:
Students should be motivated to practice ASL consistently outside the classroom.

AMERICAN SIGN LANGUAGE II

Course #3802, S1
Course #3803, S2
Grade(s) offered: 9-12
Credits: .5 (per semester)
Prerequisites: ASL I

Course Description:
Students expand their sign vocabulary, grammar, and deaf culture using appropriate facial expressions and body movements taught in level I. In addition, communicative functions about self and others through giving directions or making requests, locating things, asking for solutions, describing objects, and signing with appropriate cultural behavior in ASL will be explored. This knowledge of Sign Language will take students to the point where they can function comfortably in a wide variety of situations in the Deaf community. Conversational sign skills and deaf culture is taught throughout the curriculum through a variety of presentations where native signers model appropriate language and cultural behaviors in various situations.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill), paired activities, small group activities, video presentations, games and role play dialogs. Assessments include receptive and expressive tests, homework, special projects and storytelling. Classroom begins with a semi-immersed basis with the intent of being completely immersed by the end of the year.

Recommended Background for Success:
Students should be able to recall basic vocabulary and sentence structure from ASL 1. Students should use ASL on a daily basis to help them be successful in the language.

AMERICAN SIGN LANGUAGE III

Course #3804, S1
Course #3805, S2
Grade(s) offered: 11-12
Credits: .5 (per semester)
Prerequisites: ASL II

Course Description:
American Sign Language III is for 11th and 12th graders who have completed the prerequisites (ASL I and ASL II). This course will expand upon level two learning which includes vocabulary, sign production, grammar, and deaf culture. In addition, the course will explore communicative functions about self and others through giving directions or making requests, locating things, asking for solutions, describing objects, and signing with appropriate cultural behavior.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill), paired activities, small group activities, video presentations, games and role play dialogs. Assessments include receptive and expressive tests, homework, special projects, and storytelling. The classroom is immersed where students and instructor are expected to use ASL to communicate.

Recommended Background for Success:
Students should be able to recall in-depth vocabulary from ASL I and II. Students should also recall deaf culture values and norms. Students should use ASL on a daily basis to help them be successful in the language.

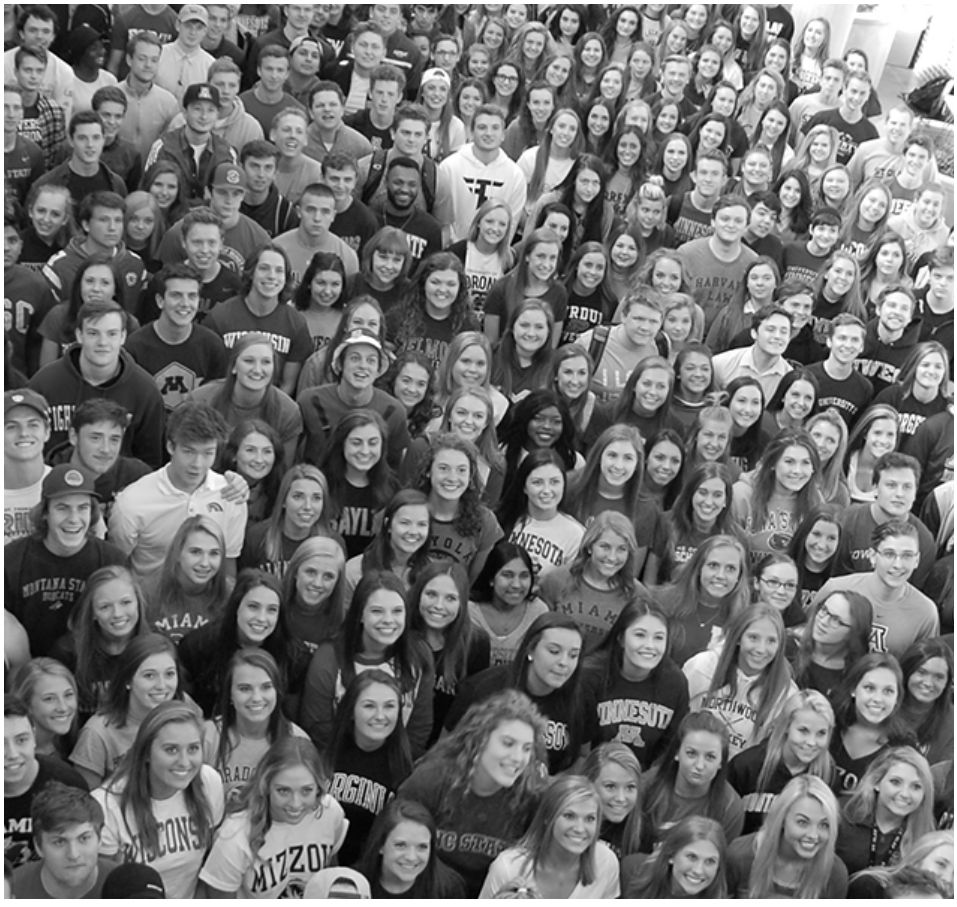
AMERICAN SIGN LANGUAGE IV

Course #3806, S1
Course #3807, S2
Grade(s) offered: 12
Credits: .5 (per semester)
Prerequisites: ASL III

Course Description:
American Sign Language IV is for 12th graders who have completed the prerequisites (ASL I, ASL II, and ASL III). This course will expand upon level three learning, which includes vocabulary, sign production, grammar, and deaf culture. In addition, the course will explore about ASL and deaf literature, arts, and performances in-depth. Students will continue learning to sign with appropriate cultural behavior and continue having contact with the deaf community to improve their knowledge and skills.

Instructional Methods/Assessments:
Instructional methods include class/teacher interactive (drill), paired activities, small group activities, video presentations, games and role play dialogs. Assessments include receptive and expressive tests, homework, special projects and storytelling. The classroom is immersed where students and instructor are expected to use ASL to communicate.

Recommended Background for Success:
Students should be able to recall in-depth vocabulary from ASL I-III. Students should also recall deaf culture values and norms. Students should use ASL on a daily basis to help them be successful in the language.



World Language Immersion

With the state's largest Language Immersion program, Minnetonka is uniquely prepared to support the goals of Chinese and Spanish Immersion students better than any other Minnesota high school. Here are some ways students can make the most of their immersion experience.

Freshman Year
Based on proficiency levels, interests, schedules and goals, students may elect to take one or two courses during ninth grade in their Immersion language. Students may take AP Language and Culture in grade 9 or10 and take the corresponding AP exam in the spring.

Advanced Placement courses (grades 9-12)
AP and IB courses and additional electives are available through grade 12.

International Baccalaureate Bilingual Diploma Programme (grades 11-12)
The International Baccalaureate Diploma Programme at Minnetonka High School is a two-year course of study encompassing six curriculum areas. Immersion students who choose to pursue the full Diploma Programme will be eligible for the Bilingual IB Diploma by completing two languages selected from Group 1 (IB Literature) with the award of 3 or higher in both OR by completing one Group 3 (IB Social Studies) subject in a language other than English. Please visit www.minnetonkaschools.org/IB for more information and a course choice worksheet. Students interested in the full diploma program are required to complete a brief online application and meet with the MHS Advanced Learning Coordinator: Laura.Herbst@minnetonkaschools.org or telephone 952-401-5897.

VANTAGE
For the 2017-2018 school year, VANTAGE will offer an opportunity for immersion students to utilize their language skills in an entirely new way. VANTAGE is often called a professional immersion program because students are immersed in industry, utilizing guest instruction, site visits, mentors, and projects to help them determine future career paths and apply the content they are learning to industry. In VANTAGE, immersion students will now learn to use the target language of Chinese or Spanish as it applies to industry.

In two course strands, Business in a Global Economy (#V102) and Design + Marketing (#V104), immersion students will complete projects in the target language for organizations such as Caribou Coffee, Habitat for Humanity, and Starkey Hearing. Working in teams, students will be given project charters in Chinese or Spanish which outline specific objectives and deliverables to complete over an 8- to 10-week period. Projects require collaboration and time management skills, as well as professional communication with project sponsors. Students will receive additional support in learning industry-related terminology in the immersion language and cultural nuances within the professional world, important steps in increasing cultural competency.

Courses for Third-Language Learners
Immersion students can also choose to study a third language in either French, German or Spanish.

World Language Immersion

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
CHINESE IMMERSION				
.5 .5	IM100 IM102	Chinese Immersion Language Arts 9, S1 Chinese Immersion Language Arts 9, S2	K-8 enrollment in Chinese Immersion	9
.5 .5	IM104 IM106	AP Chinese Language and Culture, S1 AP Chinese Language and Culture, S2	Intermediate Mid-High Spring (5/6) STAMP score recommended	9-10
.5 .5	IM108 IM110	Chinese Immersion Civics & Human Geography, S1 Chinese Immersion Civics & Human Geography, S2	Concurrent enrollment in a Chinese Immersion language arts course	9
.5 .5	IM112 IM114	Chinese Humanities Honors, S1 Chinese Humanities Honors, S2	Successful completion of AP Chinese Language and Culture	10-12
.5	IM130	Chinese Conversation and Composition	K-9 enrollment in Chinese Immersion	10-12
.5	IM140	Chinese Film and Culture	K-9 enrollment in Chinese Immersion	10-12
.5	IM160	Introduction to Chinese Politics	K-9 enrollment in Chinese Immersion	10-12
.5	IM180W	MHS Immersion Program Abroad - China Trip	K-10 enrollment in Chinese Immersion	10
.5 .5 .5 .5	IM116, Year 1, S1 IM117, Year 1, S2 IM118, Year 2, S1 IM119, Year 2, S2	IB Language and Literature SL, Language A - Chinese Immersion (two-year course)	Chinese Humanities Honors (or with teacher recommendation: AP Chinese Language and Culture)	11 (year 1) 12 (year 2)
3.0 2.0	V102 V104	VANTAGE: Immersion students will have the opportunity to complete the semester-long company projects in the Chinese language in two VANTAGE strands: • Business in a Global Economy • Design + Marketing		11-12
SPANISH IMMERSION				
.5 .5	IM200 IM202	Spanish Immersion Language Arts 9, S1 Spanish Immersion Language Arts 9, S2	K-8 enrollment in Spanish Immersion	9
.5 .5	IM204 IM206	AP Spanish Language and Culture, S1 AP Spanish Language and Culture, S2	Intermediate Mid-High Spring (5/6) STAMP score recommended	9-10
.5 .5	IM208 IM210	Spanish Immersion Civics & Human Geography, S1 Spanish Immersion Civics & Human Geography, S2	Concurrent enrollment in a Spanish Immersion language arts course	9
.5 .5	IM212 IM214	Hispanic Humanities Honors, S1 Hispanic Humanities Honors, S2	Successful completion of AP Spanish Language and Culture	10-12
.5	IM230	Spanish Conversation and Composition	K-9 enrollment in Spanish Immersion	10-12
.5	IM240	Spanish Film and Culture	K-9 enrollment in Spanish Immersion	10-12
.5	IM260	Introduction to Latin American Politics	K-9 enrollment in Spanish Immersion	10-12
.5	IM280W	MHS Immersion Program Abroad - Chile Trip	K-10 enrollment in Spanish Immersion	10
.5	IM270	Introduction to Hispanic Linguistics and Culture, Spanish Immersion	Enrollment in Spanish Immersion since Kindergarten	10-12
.5 .5	IM216 IM217	IB Language and Literature SL, Language A - Spanish Immersion	Spanish Humanities Honors (or with teacher recommendation: AP Spanish Language and Culture)	11-12
.5 .5	IM218 IM219	IB Language and Literature HL, Language A - Spanish Immersion	IB Language and Literature SL, Language A - Spanish Immersion	12
.5 .5	IM264 IM265	IB Individuals and Societies: Global Politics SL, Spanish Immersion	Enrollment in Spanish Immersion	11-12
3.0 2.0	V102 V104	VANTAGE: Immersion students will have the opportunity to complete the semester-long company projects in the Spanish language in two VANTAGE strands: • Business in a Global Economy • Design + Marketing		11-12

World Language Immersion

Chinese Language Arts offerings: World Languages department			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
AP Chinese Language and Culture →	Chinese Humanities Honors →	IB Chinese Language & Literature SL (year 1) →	IB Chinese Language & Literature SL (year 2)
	Elective options	Elective options	Elective options
Chinese Immersion Lang Arts 9 → (CHILA 9)	AP Chinese Language and Culture →	Chinese Humanities Honors →	Elective options
		IB Chinese Language & Literature SL (year 1) →	IB Chinese Language & Literature SL (year 2)
	Elective options	Elective options	Elective options

Spanish Language Arts offerings: World Languages department			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
AP Spanish Language and Culture →	Spanish Humanities Honors →	IB Spanish Language & Literature SL →	IB Spanish Language & Literature HL
	Elective options	Elective options	Elective options
Spanish Immersion Language Arts 9 → (SILA 9)	AP Spanish Language and Culture →	Spanish Humanities Honors →	Spanish Language & Literature SL
		IB Spanish Language & Literature SL →	IB Spanish Language & Literature HL
	Elective options	Elective options	Elective options

Spanish and Chinese Social Studies offerings: Social Studies department			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
Chinese/Spanish Immersion Human Geography & Civics	Elective options	IB Individuals and Societies: Global Politics SL, Spanish Immersion	Elective options

Elective offerings: Open to immersion students in grades 10-12 (various departments)	
Chinese Immersion	**Spanish Immersion**
• Chinese Film and Culture (1 semester) • Introduction to Chinese Politics (1 semester) • Chinese Conversation and Composition (1 semester) • MHS Immersion Program Abroad - China (Grade 10, 0.5 credit second semester, June travel abroad) VANTAGE: Immersion students will have the opportunity to complete semester-long company projects in the Chinese language in two of the VANTAGE strands. • Business in a Global Economy • Design + Marketing	• Spanish Film and Culture (1 semester) • Introduction to Latin American Politics (1 semester) • Spanish Conversation and Composition (1 semester) • Intro to Hispanic Linguistics and Culture (1 semester) • MHS Immersion Program Abroad - Chile (Grade 10, 0.5 credit second semester, June travel abroad) VANTAGE: Immersion students will have the opportunity to complete semester-long company projects in the Spanish language in two of the VANTAGE strands. • Business in a Global Economy • Design + Marketing

3rd Language Elective Offerings: World Languages department
ASL, Chinese, French, German and Spanish courses (all grade levels)
IB Ab Initio French, German and Spanish (Grades 11 and 12 only)

World Language Immersion

CHINESE IMMERSION LANGUAGE ARTS 9

Course #IM100, S1
Course #IM102, S2
Grade(s) offered: 9
Credits: 1.0 (year-long course)
Prerequisites: K-8 enrollment in Chinese Immersion

Course Description:
This course will explore readings on a variety of topics and Chinese cultural themes. It is geared towards students who need additional practices with reading, listening, speaking, and writing in advanced formats, and applying accurate grammatical structures. This course will prepare students to be successful in the AP Language and Culture course the following year. Placement in this course will be informed by the results of standardized assessments that are aligned to the ACTFL Proficiency Guidelines.

AP CHINESE LANGUAGE AND CULTURE (IMMERSION)

Course #IM104, S1
Course #IM106, S2
Grade(s) offered: 9-10
Credits: 1.0 (year-long course)
Prerequisites: Intermediate Mid-High Spring (5/6) STAMP score recommended

Course Description:
This course is designed for Spanish Immersion Language continuation. The main focus of this course is to prepare students for success on the Advanced Placement exam in Spanish. The course is heavily focused on refining and implementing all previously learned grammar points and verb tenses, including complex tenses such as the imperfect subjunctive and the perfect tenses. Students will gain confidence in their ability to communicate orally through use of Audacity and through written texts. Cultural units will be explored according to student interest. The ultimate goal of this course is for students to reach their greatest level of fluency and achieve ADVANCED/HIGH ACTFL proficiency standards by the end of high school. Students who are successful in this course will be encouraged to pursue the IB Bilingual Diploma or other advanced courses (i.e., AP Lit, VANTAGE, or additional elective options).

Recommended Background for Success:
Students scoring at the Intermediate-Mid level or above on the STAMP 4S are deemed to have a greater likelihood of scoring a 4 or 5 on the AP Language Exam. Specific to the STAMP 4S, students most prepared for scoring at the upper levels of the AP Language Exam will need to score within the Intermediate-Mid level on the Interpretive Reading and Listening sections. Students typically score highest on the Interpersonal Speaking and Listening section following by the Presentational Writing section.

CHINESE IMMERSION CIVICS & HUMAN GEOGRAPHY

Course #IM108, S1 Chinese
Course #IM110, S2 Chinese
Grade(s) offered: 9
Credits: 1.0 (year-long course)
Prerequisites: Concurrent enrollment in an Immersion language arts course.

Course Description:
Taught in Spanish or Chinese, this two-semester course includes the study of the foundation and principles of United States government and citizenship. In addition the course will include an introduction to the study of human geography which is the study of humans and their interaction with their surroundings. Using global examples, students will study topics such as population, the political organization of space, agriculture, development, culture. Maps will be frequently used to study various regions at different scales.

CHINESE HUMANITIES HONORS (CHINESE IMMERSION)

Course #IM112, S1
Course #IM114, S2
Grades Offered: 10-12
Credits: 1.0 (year-long course)
Prerequisites: Successful completion of AP Chinese Language and Culture (Immersion)

Course Description:
Chinese Humanities Honors is a holistic and contextual study of Chinese literature, arts, history, linguistics, and culture. Students will read, analyze and discuss works of literature from the Chinese speaking world to develop higher-level critical thinking skills, while also studying the historical and cultural context of the literature and authors. This advanced course is designed for Chinese immersion students to further develop and strengthen language skills in a variety of contexts and applications.

CHINESE CONVERSATION AND COMPOSITION

Course #IM130
Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: K-9 Chinese Immersion

Course Description:
In this application-based course, Chinese Immersion students will apply their language skills in a range of areas including but not limited to the following: persuasive writing, debate and mock trial, professional translation services (written and oral). The course is designed to continue students' development with their oral fluency and writing skills in a variety of contexts.

CHINESE FILM AND CULTURE

Course #IM140
Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: K-9 Chinese Immersion

Course Description:
This course will offer the opportunity for students to further develop their language skills by studying, watching and analyzing films from the Chinese-speaking world. The course will explore the historical and cultural contexts of the films and their directors. Students will study a range of topics from an analytical perspective, including identity expression, changing gender roles and family structures, environmental issues, Chinese philosophy and its impact on society, and the impact of technological and economic trends on social structure.

INTRODUCTION TO CHINESE POLITICS

Course #IM160
Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: K-9 Chinese Immersion

Course Description:
In this course, students will study and analyze current political issues in China, and propose political and diplomatic solutions to these issues. They will also have the opportunity to engage in interactive simulations using the *Global Classrooms Model UN* program as a resource. The course will

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allow students to explore Chinese cultural and political topics, and apply their language skills in a range of complex settings.

MHS IMMERSION PROGRAM ABROAD - CHINA TRIP

Course #IM180W, winter

Grades Offered: 10
Credits: .5 (second-semester course, summer travel abroad)
Prerequisites: K-10 Chinese Immersion

Course Description:
This study abroad course is for immersion students who will be traveling to China with the school group the summer after their sophomore year. The course offers students the opportunity to continue their immersion program experience in an abroad context while earning credit towards graduation. The course includes a hybrid Tonka online and in-classroom study component prior to travel during second semester, monthly zero-hour meetings, research and study during the travel experience, and the presentation of a final project/field study upon return after travel.

IB LANGUAGE AND LITERATURE SL, LANGUAGE A - CHINESE IMMERSION

Course #IM116, Year 1, S1
Course #IM117, Year 1, S2
Course #IM118, Year 2, S1
Course #IM119, Year 2, S2

Grade(s) offered: 11 (year 1); 12 (year 2)
Credits: 2.0 (two-year course)
Prerequisites: Chinese Humanities Honors or AP Chinese Language and Culture with teacher recommendation

Course Description:
This course represents a new way of looking at the Chinese language in action: key aims of the course are to encourage students to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. The textual focus of the course is split between Chinese fiction, nonfiction, written and visual texts. A wider aim of the course is the development of an understanding of "critical literacy" in students of the course. Students examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. Students consider the way the Chinese language is used in the media, including newspapers, magazines, the Internet, social networking, mobile telephone communication, radio, and film. At the conclusion of this two-year course, it is expected that students will take the IB SL exam, for which there is a fee.

Instructional Methods/Assessments:
In Chinese, students participate in a wide variety of classroom activities and assessments including large and small group work, discussion, close reading activities, formal analytical writings, research writing, presentations, and projects. For advanced and motivated students, there will be an option to take this exam at the HL level. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of Chinese Immersion Language Arts courses at the AP and beyond AP level. Students must be curious and motivated readers, writers and thinkers in the target language. They must be interested in looking closely at language in traditional and nontraditional forms.

SPANISH IMMERSION LANGUAGE ARTS 9

Course #IM200, S1
Course #IM202, S2

Grade(s) offered: 9
Credits: 1.0 (year-long course)
Prerequisites: K-8 enrollment in Spanish Immersion

Course Description:
This course will explore a variety of literary genres, grammar topics, and cultural themes from the Spanish speaking world. It is geared towards students who need additional practices with reading, listening, speaking, and writing in advanced formats, and applying accurate grammatical structures. This course will prepare students to be successful in the AP Language and Culture course the following year. Placement in this course will be informed by the results of standardized assessments that are aligned to the ACTFL Proficiency Guidelines.

AP SPANISH LANGUAGE AND CULTURE

Course #IM204, S1
Course #IM206, S2

Grade(s) offered: 9-10
Credits: 1.0 (year-long course)
Prerequisites: Intermediate Mid-High Spring (5/6) STAMP score recommended

Course Description:
This Spanish immersion language arts course focuses on refining and implementing all previously learned language and grammar topics through the analysis of literature and other authentic resources. The course uses cultural units, literature, presentations, current events studies, and listening and reading practices to help ensure students are prepared to be successful on the Advanced Placement exam. The ultimate goal of this course is for students to reach their greatest level of fluency and achieve ADVANCED/HIGH ACTFL proficiency standards by the end of high school. Students who are successful in this course will be encouraged to pursue the IB Bilingual Diploma or other advanced courses (i.e., AP Literature, IB Literature, VANTAGE, or additional elective options).

Recommended Background for Success:
Students scoring at the Intermediate-Mid level or above on the STAMP 4S are deemed to have a greater likelihood of scoring a four or five on the AP Language Exam. Specific to the STAMP 4S, students most prepared for scoring at the upper levels of the AP Language Exam will need to score within the Intermediate-Mid level on the Interpretive Reading and Listening sections. Students typically score highest on the Interpersonal Speaking and Listening section following by the Presentational Writing section.

SPANISH IMMERSION CIVICS & HUMAN GEOGRAPHY

Course #IM208, S1 Spanish
Course #IM210, S2 Spanish

Grade(s) offered: 9
Credits: 1.0 (year-long course)
Prerequisites: Concurrent enrollment in an Immersion language arts course.

Course Description:
Taught in Spanish or Chinese, this two-semester course includes the study of the foundation and principles of United States government and citizenship. In addition the course will include an introduction to the study of human geography which is the study of humans and their interaction with their surroundings. Using global examples, students will study topics such as population, the political organization of space, agriculture, development, culture. Maps will be frequently used to study various regions at different scales.

HISPANIC HUMANITIES HONORS (SPANISH IMMERSION)

Course #IM212, S1
Course #IM214, S2

Grades Offered: 10-12
Credits: 1.0 (year-long course)
Prerequisites: AP Spanish Language and Culture (Immersion)

Course Description:
Hispanic Humanities Honors is a holistic and contextual study of Hispanic literature, arts, history, linguistics, and culture. Students will read, analyze and discuss important works of literature from the Spanish speaking world to develop higher-level critical thinking skills, while also studying the historical and cultural context of the literature and authors. This advanced course is designed for Spanish immersion students to further develop and strengthen language skills in a variety of contexts and applications.

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SPANISH CONVERSATION AND COMPOSITION

Course #IM230

Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: K-9 Spanish Immersion

Course Description:
In this application-based course, Spanish Immersion students will apply their language skills in a range of areas including but not limited to the following: persuasive writing, debate and mock trial, professional translation services (written and oral). The course is designed to continue students' development with their oral fluency and writing skills in a variety of contexts.

SPANISH FILM AND CULTURE

Course #IM240

Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: K-9 Spanish Immersion

Course Description:
This course will offer the opportunity for students to further develop their language skills by studying, watching and analyzing films from the Spanish-speaking world. The course will explore the historical and cultural contexts of the films, their countries of origin, and their directors. Students will study a range of topics from an analytical perspective, including indigenous issues, religion, race relations, women's issues, and political concerns.

INTRODUCTION TO LATIN AMERICAN POLITICS

Course #IM260

Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: K-9 Spanish Immersion

Course Description:
This course is an introduction to Latin American politics, focusing on the struggle for democracy, representative institutions, and development. Students will study and analyze current political issues in Latin America, and propose political and diplomatic solutions to these issues. The course will allow students to explore Latin American cultural and political topics, and apply their language skills in a range of complex settings. They will also have the opportunity to engage in interactive simulations using the *Global Classrooms Model UN* program as a resource. A variety of sources in Spanish, including literature, films, and media will also be used, and summative assessments will be predominantly project-based.

MHS IMMERSION PROGRAM ABROAD - CHILE TRIP

Course #IM280W, winter

Grades Offered: 10
Credits: .5 (second-semester course, summer travel abroad)
Prerequisites: K-10 Spanish Immersion

Course Description:
This study abroad course is for immersion students who will be traveling to Chile with the school group the summer after their sophomore year. The course offers students the opportunity to continue their immersion program experience in an abroad context while earning credit towards graduation. The course includes a hybrid Tonka online and in-classroom study component prior to travel during 2nd semester monthly zero hour meetings, research and study during the travel experience, and the presentation of a final project/field study upon return after travel.

INTRODUCTION TO HISPANIC LINGUISTICS AND CULTURE

Course #IM270

Grades Offered: 10-12
Credits: .5 (one-semester course)
Prerequisites: Spanish Immersion since Kindergarten

Course Description:
The study of linguistics focuses on the nature of language, the relationship between language and culture, and how humans use language to create meaning. It explores the systems of sound and meaning, phrase and sentence structure, linguistic diversity, first- and second-language acquisition, and how languages change over time. This course covers the fundamentals of linguistics. Students will explore the impact of language on social and cultural contexts (sociolinguistics and ethnolinguistics); for example, how the words we use and the way we say them have social and cultural implications. Students will gain cultural insights by studying how Spanish differs across the Spanish-speaking world with its many regional variations.

Recommended Background for Success:
Successful completion of Spanish Immersion Language Arts courses grades 6-9. Students should be curious about the nature of the Spanish language and how it is used around the world.

IB LANGUAGE AND LITERATURE SL, LANGUAGE A - SPANISH IMMERSION

Course #IM216, S1
Course #IM217, S2

Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Spanish Humanities Honors or AP Spanish Language and Culture with teacher recommendation

Course Description:
This course represents a new way of looking at the Spanish language in action: key aims of the course are to encourage students to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. The textual focus of the course is evenly split between fiction, nonfiction, written and visual texts in the Spanish language. A wider aim of the course is the development of an understanding of "critical literacy" in students of the course. Students examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. Students consider the way the Spanish language is used in the media, including newspapers, magazines, the Internet, social networking, mobile telephone communication, radio, and film.

Instructional Methods/Assessments:
In Spanish, students participate in a wide variety of classroom activities and assessments including large and small group work, discussion, close reading activities, formal analytical writings, research writing, presentations, and projects. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of Spanish Immersion Language Arts courses at the AP and beyond AP level. Students must be curious and motivated readers, writers and thinkers in the target language. They must be interested in looking closely at language in traditional and nontraditional forms.

IB LANGUAGE AND LITERATURE HL, LANGUAGE A - SPANISH IMMERSION

Course #IM218, S1
Course #IM219, S2

Grade(s) offered: 12
Credits: 1.0 (year-long course)
Prerequisites: IB Language and Literature SL, Language A - Spanish Immersion

Course Description:
This IB HL course is a direct continuation of the IB Language and Literature SL course, and involves the study of additional texts and topics in the Spanish language. Students will continue to question the meaning generated by language and texts and to become aware of the role of each text's wider context in shaping its meaning. Like SL, the HL course will be evenly divided between fiction, nonfiction, written and visual texts. Students will examine how language develops in specific cultural contexts, how it impacts the world, and how language shapes identity. The HL

World Language Immersion

focus shifts to literary critique, text evaluation and analysis, and comparative analysis between texts.

Instructional Methods/Assessments:
In Spanish, students participate in a wide variety of classroom activities and assessments including large and small group work, discussion, close reading activities, formal analytical writings, research writing, presentations, and projects. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of IB Language and Literature SL, Language A - Spanish Immersion. Students must be curious and motivated readers, writers and thinkers in the target language. They must be interested in looking closely at language in traditional and nontraditional forms.

IB INDIVIDUALS AND SOCIETIES: GLOBAL POLITICS SL, SPANISH IMMERSION

Year-long social studies elective course which can be applied to the 12th grade required social studies credit

Course #IM264, S1
Course #IM265, S2
Grade(s) offered: 11-12
Credits: 1.0 (year-long course)
Prerequisites: Enrollment in Spanish Immersion

Course Description:
This course aims to develop international mindedness and an awareness of multiple perspectives while studying contemporary political issues around the world. Students will study real world examples and case studies to examine and experience the way political issues are addressed and connected across different levels of global politics. At the conclusion of this course, it is expected that students will take the IB Exam, for which there is a fee.

This course contains a common core entitled "people, power and politics" and consists of four core units:

- power, sovereignty and international relations
- human rights
- development
- peace and conflict

Instructional Methods/Assessments
This course will be conducted and assessed entirely in Spanish. It follows the IB assessment requirements, which include a common internal assessment task, an engagement activity, as well as an assessed written report. For IB Diploma Candidates, taking this course qualifies students for the IB Bilingual Diploma.

Recommended Background for Success:
Successful completion of Spanish Immersion Human Geography/Civics and Spanish Immersion Language Arts courses at the AP level and beyond AP level.

VANTAGE: BUSINESS IN A GLOBAL ECONOMY

Course #V102
Grade(s) offered: 11-12
Credits: 3.0
Earning credit for AP Micro & Macroeconomics (social studies credit), English & Advanced Research (English credit) and IB Business Management SL (elective credit). Immersion students will have the opportunity to complete the semester-long company projects in their immersion language.
Prerequisites: Interest in global business; application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 117

VANTAGE: DESIGN + MARKETING

Course #V104
Grade(s) offered: 11-12
Credits: 2.0
Earning credits in Graphic and Product Design I and II (art elective) and Marketing I and II (business elective). Immersion students will have the opportunity to complete the semester-long company projects in their immersion language.
Prerequisites: Interest in design and marketing. Application process.
Apply at www.TonkaVANTAGE.com

Course Description: see page 117

WORLD LANGUAGE FOR THE 3RD LANGUAGE LEARNER

Ideal for Immersion students who would like to learn a third language, MHS offers two-year courses in French, German and Spanish, designed specifically for students who are literate in a second language. The courses are comprised of three interconnected areas: language, themes, and texts. Elements of language include vocabulary, grammatical structures, register, pronunciation, and intonation. Students will develop receptive, productive and interactive skills and competencies using as a foundation the three themes: individual and society, leisure and work, and urban and rural environment. During the course students will be taught to understand and produce a variety of texts. Intercultural understanding is a key goal of this course. This fast-paced two-year course will cover the traditional scope of Levels I-III Honors in the chosen language. Upon successful completion, students may register for the IB SL course in the third language.

FRENCH FOR THE 3RD LANGUAGE LEARNER (FTL)

Course #IB340, Year 1, S1
Course #IB342, Year 1, S2
Course #IB344, Year 2, S1
Course #IB346, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisite: Language Immersion

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn French as a third language. Upon successful completion of this two-year course, students may register for IB French SL.

GERMAN FOR THE 3RD LANGUAGE LEARNER (GTL)

Course #IB308, Year 1, S1
Course #IB310, Year 1, S2
Course #IB312, Year 2, S1
Course #IB314, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisite: Language Immersion

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn German as a third language. Upon successful completion of this two-year course, students may register for IB German SL.

SPANISH FOR THE 3RD LANGUAGE LEARNER (STL)

Course #IB324, Year 1, S1
Course #IB326, Year 1, S2
Course #IB328, Year 2, S1
Course #IB330, Year 2, S2
Grade(s) offered: 9-12
Credits: 2 (two-year course)
.5 (per semester)
Prerequisite: Language Immersion

Course Description:
This two-year course is designed specifically for students who are literate in a second language. It is ideal for immersion students who would like to learn Spanish as a third language. Upon successful completion of this two-year course, students may register for IB Spanish SL, Spanish IV Honors, or Spanish IV General.

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www.minnetonkaschools.org/mhs

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