

# Farmington High School Registration Guide 2016-2017



## PLANNING FOR THE FUTURE

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**It is the policy of the School Board of District #192 that no person shall, on the grounds of race, color, national origin, religion, sex, marital status, status with regard to public assistance, age or disability, be excluded from participating in, be denied the benefits of, or be otherwise subjected to discrimination under any educational program or activity operated by District #192.**

**"WE ARE AN EQUAL OPPORTUNITY EMPLOYER"**

# FARMINGTON HIGH SCHOOL

## 2016-2017

The Registration Handbook for the 2016-2017 academic year serves as a guide for students, parents/guardians and staff members in developing an individualized, customized learning program for each student at Farmington High School. The current available coursework will serve as a solid foundation for future schedules.

In preparing for the 2016-2017 schedule, each student needs to keep in mind that each school year is part of the larger four-year high school plan. Each student needs to formulate personal goals in order to develop the most appropriate academic schedule for future success. FHS counselors and staff are available to support and advise each student in the registration process, and we highly encourage parents and/or guardians to also be highly involved in the course selection and planning process.

Please note that students will be required to meet the new state of Minnesota Requirements as outlined on the following pages. This includes the requirement to earn two credits in the Fine Arts, as well as additional credits in Math and Science.

The registration process is a serious endeavor. Decisions about course offerings and staffing are made based on the choices that each student makes in the registration process. With the ongoing challenge of balancing competing priorities with finite or diminishing resources, choices that students make in this process become extremely critical. It is our sincere hope that all students will recognize the need for taking challenging courses to prepare themselves for further studies after high school, including the Advanced Placement, College in the Schools, Honors Courses, and Career and Technical Education (CTE) courses.

The course descriptions in this book are available on the **FHS website [www.farmington.k12.mn.us](http://www.farmington.k12.mn.us), go to Schools then open FHS and scroll down to Registration guide and course description**. Paper copies are available in the school Media Center, Counseling Office and public library.

Thank you and please do not hesitate to contact any of our Counseling or Administrative staff for assistance during this important process.

Jason Berg  
Principal

## ON INNOVATION, CUSTOMIZATION AND THE DISTRICT 192 AND FHS STRATEGIC PLANS

### FHS Parents,

As I hope you are well aware, under the guidance of the District 192 Strategic Plan, Farmington High School is boldly moving forward in its innovations to provide increasing levels of customization and individualization in both teaching and learning. An important part of this customization is the increasing use of technology (computers, iPads, and other digital devices), as well as the other resources that support technologically enhanced and advanced teaching and learning. Resources like Schoology and Campus (Family Web Access--FWA) help push the boundaries of communication and learning, along with supporting this individualization. Our student data management system, Campus, helps teachers communicate with parents and students the academic progress and achievement levels. We highly suggest that you use Campus and its FWA function to keep track of your student's grades, work completion, and attendance. Through this portal you can also view your student's schedule and report card as we have gone paperless in both these regards. Schoology is the newest tool in the High School "toolbox." Schoology is what we call a Learning Management System, or LMS. It is web-based platform that allows for the communication and delivery of learning material and information from teacher to students and parents, and vice versa. It is through Schoology that parents can track their student's assignments real-time: what the assignment is, what it entails, often when it is due and even the means to complete it and turn it in—all in a digital, paperless environment.

Most importantly what is changing and evolving at FHS is the nature of teaching and learning. While this year's registration manual is similar to what you may have seen in prior years, it is the implementation of these courses—the day to day interactions between students and teachers—that is changing. Teachers at FHS are fast-becoming local, regional and national resources for what is new and evolving in education: an increased emphasis on customizing the educational experience for each student. Terminology like "hybrid class," "flipped classroom," and "self-paced learning environment" is becoming more common place at FHS. While the syllabus for each class will explain in greater detail how a given class operates, be it in a more traditional format or not, we thought it helpful to provide a brief description of what some of these terms mean, as you will very likely encounter at least one of them, or something like them, on your student's syllabi at some point in his/her high school career.

**Hybrid Class:** This means that class time will be split between classroom activities that take place in the classroom, under direct teacher supervision and in a more flexible environment outside of the classroom, where learning activities are most often posted on Schoology, online, and are teacher directed, teacher facilitated, or student directed, and are in a more passively supervised setting such the cafeteria or Media Center.

**Flipped Classroom:** In this learning environment, the "homework" students have is most often a "mini-lesson" that the teacher has pre-recorded and placed online for students to watch. Commonly there are notes that accompany the lesson, and a short quiz that students take to help provide feedback to the teacher. Class time is then spent responding to the feedback, likely with a review of the lesson presented, an opportunity for questions, and time for teachers to work with students individually, or in small groups as students work on what used to be called homework. This "flip" of traditional lecture and homework time is how this structure earned its name.

**Self-Paced Learning Environment:** In this format, the teacher has done considerable organization of the classroom content and learning outcomes to allow for students to progress at his or her own pace to meet and/or exceed proficiency standards. Teachers work with individual students and groups of varying sizes to provide instruction, direction, and remediation to move students toward mastery and beyond.

These structures, and others like them, that focus on individualizing student learning represent the beginning of our innovative work launched by our strategic plans. The classroom experience and learning environments at FHS will continue to advance and evolve, and if you have questions or concerns, after reading the course syllabus we encourage you to start the conversation with your student and his/her teacher. You can similarly speak with your student's counselor, or an FHS Administrator.

Thank you, and we look forward to an exciting completion of the 15-16 school year, and an even more exciting beginning of the 16-17 school year where we grow and advance teaching and learning alongside our students.

Jason Berg  
Principal  
FHS

## GENERAL INFORMATION

1. Every student must be enrolled in a minimum of five classes each trimester. Each trimester class equals one credit.
2. Currently there are no Study Halls. However, for senior students who are in good academic standing, a Senior Option is available. This option allows students during their senior year to have a study period during one regularly scheduled class period. Please schedule an appointment with your counselor for more information. Eligible students will receive a notice with more information about this earned privilege.
3. Advanced Placement classes are year long, three trimester classes with the exception of AP Microeconomics and AP Advanced Studio Art, which are two trimesters. Students are not allowed to drop the class after the second trimester. Advanced Placement classes fulfill that year's graduation requirement:

AP Biology replaces Biology A/B

AP English Language and Composition replaces English 11 A/B

AP English Literature and Composition replaces two senior English electives

AP Chemistry replaces Chemistry and Introduction to Chemistry

AP European History replaces World History/Geography A/B

AP US History replaces US History A/B

## **A WORD ABOUT THE FINAL SCHEDULE**

As you prepare to register, please be aware of the following:

1. There must be sufficient enrollment to validate the expenses involved with any given class. Minimum enrollments are a key in determining placement of a class in the final schedule.
2. Please choose courses carefully, as the information you provide will be used in order to form classes, plan the master schedule, and hire/assign teachers for next year. Class requests are like “reservations” and the schedule is built upon these “reservations”. We will build a schedule that maximized the opportunities for the students get all of their “reservations:”, but if student requests a change after that schedule has been built we not not guarantee we will be able to honor those requests.
3. Everything will be done to minimize the possibility of classes conflicting, but based on the number of sections offered and teacher availability students may have to chose between classes that conflict in the schedule.
4. As we have in years past, in an effort to conserve resources and leverage the benefits of technology, all student schedules and report cards will be available online, through the Family Web Access feature of Infinite Campus. During the summer, and prior to each academic term, you will be notified via email and automated voice message that the coming academic term’s schedule is available for viewing. At the end of each academic term you will be notified via email and automated voice message when report cards are available for viewing. If you have questions or need assistance with Family Web Access, please contact the High School at 651-252-2501.

This year, with support from the School Board, FHS is reaching out to ask for parental involvement with registration. Whether your son or daughter is college or vocational bound, planning to enlist in the military, or wants to enter the workforce, please encourage them to **challenge themselves with at least one advanced course**.

On behalf of the faculty and staff, we are looking forward to another excellent year at Farmington High School.

**Jason Berg, Principal**

**Lowell Miller, Assistant Principal**

**Dan Pickens, 9<sup>th</sup> and 10<sup>th</sup> Grade, Assistant Principal**

**Laura Pierce, 11<sup>th</sup> and 12<sup>th</sup> Grade, Assistant Principal**

## STUDENT SCHEDULE CORRECTION GUIDELINES

One week before each trimester begins, there will be a five day schedule correction period. All requests for corrections require parent approval, and forms are available in the 3<sup>rd</sup> floor office.

A great deal of time and effort is put forth to ensure that students are scheduled for the classes that they and their parents request during the registration process. Therefore, all corrections must be for educational reasons only. Classes are not changed once the trimester has begun. Any schedule corrections deemed necessary after the trimester has begun require counselor and administrative assistance.

Student schedule corrections are made for the following reasons:

- a) Inappropriate academic level
- b) Error on schedule
- c) Failed prerequisite
- d) Senior credit needed for graduation

Schedule corrections that are not approved include:

- a) Request for a specific teacher
- b) Request to move a class to have lunch or Senior Option during a certain period
- c) Request to move a class to accommodate sports, work or extracurricular activities

## PASS/NO-CREDIT GRADING OPTION

**Philosophy:** Students may take one class each trimester (3 credits per year) on a “Pass/No-Credit” basis. This option is to encourage students to explore areas of interests or extend themselves in a class without the risk of a low grade.

**Procedure:** Student must apply for the “Pass/No-Credit” option within the first 20 days of the trimester. Written permission is required from parents or guardians. Application forms are available in the Counseling Office on the 3<sup>rd</sup> floor. “Pass/No-Credit” students must complete all work/activities and take all assessments associated with the class. **The final mark will be “Pass” if the student completes all work/assessments at or above 70%.** The final mark will be “No-Credit” if the student completes all the work/assessments, but does not achieve at least a 70% on all the work. The final mark will be “F” if the student does not complete all the work according to the instructor’s deadlines.

Student may convert the “Pass” mark to a letter grade by notifying the teacher on the last day of the class.

Students will receive a credit towards graduation for a “Pass” mark in the class. No credit towards graduation will be given for a “No-Credit” or F mark.

Classes taken “Pass/No-Credit” will not be factored into the student’s cumulative GPA.

If a student is taking a class on the “Pass/No-Credit” option and are removed from the class by FHS administration, the student will receive a grade of “F” for the class.

The University of Minnesota and St. Cloud State University classes offered at FHS are not eligible to be taken “Pass/No-Credit”.

The NCAA Clearing House will accept academic core classes taken “Pass/No-Credit”; however, they will assign the lowest passing grade for classes graded using this option.

# ***District***

# ***192***

## **Graduation Requirements**

In order to earn a diploma from Farmington High School, students must earn 55 credits in the areas listed below:

- English/Language Arts - four years (8 credits)
- Mathematics - three years (6 credits) including Intermediate Algebra, Geometry and Algebra II
- Science – three years (6 credits) including Physics 9, Biology, Chemistry and Earth Science
- Social Studies – four years (8 credits) including Civics, U.S. History, World History and Economics
- Health – one course (1 credit)
- Physical Education – two courses (2 credits)
- Fine Arts – two courses (2 credits)
- Electives – 22 credits

### ***FHS Courses That Fulfill the Fine Arts Graduation Requirement***

1. All Art Department Courses
  - Sculpture I, Sculpture II
  - Ceramics I, Ceramics II, Ceramics III
  - Drawing I, Drawing II
  - Graphic Design I, Graphic Design II
  - Painting I, Painting II
  - Photography I, Photography II, Photography III
  - AP Advanced Studio Art A and AP Advanced Studio Art B
  - Tiger Publications: Yearbook and Prowler Press
2. Housing and Interior Design
3. Fashion Design and Merchandising
4. Creative Textiles
5. All Music Department Courses (with the exception of Bach to Rock)
6. Video Production I, II, III
7. Humanities A & B (Both must be completed for 1 art credit.)



Graduation Requirements  
Credit Inventory  
55 Credits Required for Graduation

Student Name:		Graduation Year: <b>2017 &amp; Beyond</b>	
Courses	Credit	Completed	
Fine Arts	1		
Fine Arts	1		
English 9A	1		
English 9B	1		
English 10A	1		
English 10B	1		
English 11A	1		
English 11B	1		
Senior English Elective	1		
Senior English Elective	1		
Intermediate Algebra A	1		
Intermediate Algebra B	1		
Geometry A	1		
Geometry B	1		
Algebra II	1		
Algebra II	1		
PE 9 or Fitness for Life	1		
PE 10, Aerobics, Sports Conditioning or Weight Training	1		
Health Issues	1		
Physics 9A	1		
Physics 9B	1		
Biology A	1		
Biology B	1		
Chemistry	1		
Earth Science	1		
Civics A	1		
Civics B	1		
US History A	1		
US History B	1		
World History/Geography A	1		
World History/Geography B	1		
Economics	1		
Social Studies Elective	1		
<b>Total Credits Earned in the required courses listed above</b>	<b>33</b>		
Elective Credits Earned - Grade 9			Total:
Elective Credits Earned - Grade 10			Total:
Elective Credits Earned - Grade 11			Total:
Elective Credits Earned - Grade 12			Total:
<b>Credits Earned in required courses and elective courses</b>			<b>Grand Total:</b>

## COURSE SELECTION GUIDELINES

Students are required to take 5 courses per trimester. College admission requirements often exceed Farmington High School minimum graduation requirements. While we strongly advise all FHS students to pursue a rigorous, college preparatory course of study, there are some considerations worth noting, depending upon a student's postsecondary aspirations.

Students considering **selective colleges** should take courses with a high level of "academic rigor." To build the strongest academic foundation in preparation for the selective college application process, it is highly recommended that students take the most advanced courses available in the core academic disciplines of English, Math, Social Studies, Science, and World Language. AP and concurrent enrollment courses are academically rigorous.

Students planning to attend a **four year state college or university** should take challenging courses including the minimum course requirements for admission listed.

Students planning to attend a **community and technical college** should consider electives in their areas of interest with a career and technical focus after completion of all FHS graduation requirements.

### High School Course Requirements for College Admission

Department	Years Required	Course Options
<b>English</b>	4	English, Honors English, AP English Language/Composition, AP English Literature/Composition, Humanities, Shakespeare, World Literature, Public Speaking, Creative Writing
<b>Mathematics</b>	4	Algebra I & II, Advanced Algebra, Geometry, Pre-Calculus, Trigonometry, AP Statistics, Probability and Statistics, Calculus
<b>Social Studies</b>	4	Civics, Honors Civics, Economics, US History/Geography, AP US History, World History, AP European History
<b>Science</b>	4	Physics 9, Biology, AP Biology, Chemistry, AP Chemistry, Advanced Physics, Earth Science
<b>World Languages</b>	2-4	French German Spanish
<b>Fine Arts</b>	1	Art Music Media Production
<b>College-prep Electives from Various Departments</b>	1-2	Politics and Government, AP Advanced Studio Art, Psychology, AP Psychology, Probability and Statistics, AP Statistics, Sociology, Intro to Global Geography, Nano Technology
<b>Electives with a Career and Technical Focus from Various Departments</b>		Agriculture, Business, Career and Technology Ed, Family and Consumer Sciences, DCTC Courses

### HONORS COURSES AT FARMINGTON HIGH SCHOOL

### What are they?

Honors classes offered at FHS are accelerated courses that are more academically intensive and faster paced than regular courses. Please note that honors courses are not weighted.

### What are the benefits?

There are many benefits of taking honors courses during high school, including:

- Honors courses are excellent preparation for experiencing higher level course requirements and will help you be more prepared to take college level courses including AP courses.
- Honors courses are a great way of challenging yourself and they offer you the opportunity to grow academically.
- Honors courses will help you improve your study skills to be more successful for the rest of high school and college.

### What are the characteristics of a student who would be a good fit for honors courses?

- You are always well prepared (keep up with reading, turn in assignments on time, study for tests, etc.)
- You are a strong student academically and have high motivation to be successful. You have experienced high achievement in previous courses with little stress or need for extra help and have a strong intuitive sense for the subject matter.
- You take a strong interest in what you are learning and ask questions about the things you want to learn more about.
- You like to challenge yourself and are positive and resourceful when faced with a problem.
- You are a critical thinker and are able to recognize and formulate problems and use deductive reasoning to solve them.
- You work well independently without repeated direction.
- You are good at balancing several responsibilities and have strong time management skills.

### What accelerated/honors courses are offered at FHS?

Honors English 9A	Honors Physics 9A	Honors Civics 9A
Honors English 9B	Honors Physics 9B	Honors Civics 9B
Honors English 10A		
Honors English 10B		

## ARTICULATION AGREEMENTS AT FARMINGTON HIGH SCHOOL

In addition to Advanced Placement, Concurrent Enrollment, and PSEO, students also have the opportunity to earn college credit through an articulation agreement. Articulation credit can be earned at Dakota County Technical College (DCTC) and other regional post secondary schools. Please refer to individual course descriptions in Family and Consumer Sciences, Business, Technology Education, and the Career and Technology Education Additional Program Offerings areas for more specific courses that are eligible to receive articulation credit. Students will receive more information from teachers upon starting and completing eligible courses.

# EARNING COLLEGE CREDIT AT FARMINGTON HIGH SCHOOL

Advanced Placement (AP)	Concurrent Enrollment (U of MN, SCSU)	Postsecondary Enrollment Options (PSEO)
<b>What is it?</b>		
Advanced Placement offers college level courses in subjects such as English, Science, History, Math, and languages. Classes are taken at the high school and are all year-long. Please note: Microeconomics is two trimesters long.	Concurrent Enrollment allows students to take college-level courses at their high school through partnerships between high schools and local colleges and universities.	Postsecondary Enrollment Options allow highly motivated students to take college courses at a college. Students attend class and complete the same assignments required of regular college students. <b>Note: PSEO grades are not weighted</b>
<b>What are the benefits?</b>		
<ul style="list-style-type: none"> <li>• Students may earn both high school and college credit. This can save you time and money when you actually get to college.</li> <li>• The course work is college-level. You may do better in college classes later because you'll know what to expect.</li> <li>• You take college- level courses in your high school. This gives you a taste of college within the safety of your high school walls.</li> <li>• Grades are weighted.</li> </ul>	<ul style="list-style-type: none"> <li>• Students may earn both high school and college credit. This can save you time and money when you actually get to college.</li> <li>• The course work is college-level. You may do better in college classes later because you'll know what to expect.</li> <li>• You take college-level courses in your high school. This gives you a taste of college within the safety of your high school walls.</li> <li>• Grades are weighted.</li> </ul>	<ul style="list-style-type: none"> <li>• Students may earn both high school and college credit. This can save you time and money when you actually get to college.</li> <li>• The course work is college-level. You may do better in college classes later because you'll know what to expect.</li> <li>• You take college-level courses on a college campus. You may interact with college students from around the state and country.</li> <li>• Explore more subjects and more advanced work in PSEO.</li> </ul>
<b>Who is eligible to participate?</b>		
It is your decision to take an AP course. Students are encouraged to talk with their teachers, parents, and counselor to make sure they prepared for the rigor of AP courses.	FHS offers concurrent enrollment courses through University of Minnesota's College in the Schools program and St. Cloud State's Senior to Sophomore program. Specific courses require certain academic standing or GPA for eligibility.	Any public high school or homeschooled student may apply. Applicants must begin the application process January of the previous year and must meet college's admission requirements. A parent meeting with your counselor is required by March 30 <sup>th</sup> of the previous school year.
<b>Who teaches the course?</b>		
High school teacher	High school teacher	College professor
<b>Where is the class held?</b>		
Farmington High School	Farmington High School	College or university campus
<b>How much does it cost?</b>		
Classes are free. Exam is \$50 at FHS.	Free	Free (textbooks are included)
<b>How do I earn college credit?</b>		
You must take an exam which is graded on a 5-point scale. Most colleges award credit for scores of 3 or higher but some require scores of at least 4.	You earn high school and college credit upon successful completion of the course, which is based on multiple and varied assessments over the entire term of the course.	You earn high school and college credit upon successful completion of the course, which is based on multiple and varied assessments over the entire term of the course.
<b>Do all colleges and universities accept these credits?</b>		
Acceptance and transfer of credits for each of these programs varies by college but is recognized by most post secondary institutions in the U.S. in some form. Credits may be directly transferred toward college graduation requirements, exempt a student from taking a required class, or allow the student eligibility for placement into a higher level course. Check with specific college or university about their individual policy.		
<b>What courses are available to me at FHS?</b>		
AP Biology            AP Microeconomics AP Chemistry        AP Statistics AP US History        AP Adv Studio Art AP European History AP Psychology AP English Language and Composition AP English Literature and Composition	Intro. to Literature ( U of MN: ENGL1001W), Writing and Critical Reading (U of MN: WRIT 1301) Calculus I (U of MN: MATH 1371) Intro. to Global Geography (SCSU:GEOG 111) College Physics (SCSU: PHYS 231)	PSEO students are eligible to take most courses that are available at a given college. Some restrictions may apply so check with individual postsecondary institutions for specific course availability.
<b>For More Information</b>		
<a href="http://www.collegeboard.com/ap">www.collegeboard.com/ap</a>	Check with your school counselor	Education.state.mn.us

Adapted from: Office of Higher Education, November 2011

# ACADEMIC OFFERING LIST 2016-2017

## AGRICULTURE

### **20101 Agriculture I**

**Grades 9, 10, 11, 12**

**1 Trimester**

As one of the United States' oldest industries, agriculture is an important facet of the U.S. economy. The agricultural industry brings us bread, fruit, vegetables, milk, meat, and just about every other type of food. In general, agriculture centers on two main areas: animals and crops. Introduction to Agriculture is an interesting, fun, and lively class designed to give students a chance to glance inside agriculture and learn about animals and plants – whether you're interested in horses or flowers – this class is for you. This course will consist of various guest speakers, field trips, independent and group projects. This class is for students who enjoy learning through a hands-on approach.

### **20102 Agriculture II**

**Grades 9, 10, 11, 12**

**1 Trimester**

#### **Prerequisite: Agriculture I**

Students will have a chance to experience agriculture first hand through interactive lessons on leadership, pet care, veterinary science, careers, livestock, horses, plant sciences, floral arranging/greenhouse management, non-traditional agriculture, and food science. Students will learn via lecture, lab activities, guest speakers, field trips, independent and group projects.

### **20103 Animal Science**

**Grades 9, 10, 11, 12**

**1 Trimester**

This course is an introduction to the field of Animal Science and designed for animal lovers. If you are interested in horses, cattle, sheep, or pigs – this course will help you understand livestock nutrition, care, veterinary science, breeding, and evaluation. Students will learn about these animals through hands on projects, field trips, guest speakers, videos, and labs.

### **20104 Engines I**

**Grades 9, 10, 11, 12**

**1 Trimester**

Students who enroll in small engines class should have an interest in learning more about engines and how they work. Emphasis will be placed upon basic operating principles, maintaining, repairing, parts identification, engine safety, and proper use of tools. Students will practice what they learn in the classroom by performing hands-on activities in the school shop.

### **20112 Engines I (FEMALES ONLY)**

**Grades 9, 10, 11, 12**

**1 Trimester**

Students who enroll in small engines class should have an interest in learning more about engines and how they work. Emphasis will be placed upon basic operating principles, maintaining, repairing, parts identification, engine safety, and proper use of tools. Students will practice what they learn in the classroom by performing hands-on activities in the school shop. **This class will be for females only.**

### **20105 Engines II**

**Grades 9, 10, 11, 12**

**1 Trimester**

#### **Prerequisite: Engines I**

Students will be able to use what they learned in Engines I class to trouble-shoot and repair engines. Emphasis will be placed on diagnosis, engine testing, and repair. Students will be required to furnish their own engine and must be ready to diagnosis the problem and repair the engine. Students will work in the shop as if it were a business and will practice skills such as reading repair manuals and precise measuring.

**20107 Small Animals****Grades 9, 10, 11, 12****1 Trimester**

Cats, dogs, rabbits, fish, and other small animals are a large part of many people's lives, but do you know how to best care for them? This class will teach students about companion animals. Students will learn about proper care, management, nutrition, breeds and selection in this small animal class. Students will have the opportunity to learn about veterinary care through hands on labs, caring for the school's animals, guest speakers, and projects.

**20108 Wildlife and Natural Resource Management****Grades 9, 10, 11, 12****1 Trimester**

An activity oriented course, students will be introduced to the broad and complex topic of wildlife, fisheries, and natural resource management. Content will include the basic needs of wildlife and the specific needs of the most common species. The environment and social aspects of natural resources will be studied.

**20109 Landscaping and Horticulture****Grades 9, 10, 11, 12****1 Trimester**

This course is designed to introduce students to horticulture, floral design, and landscaping. Instruction will include a basic overview of plants and plant processes. Activities in this class include a discussion on careers and hands on labs for floral arranging, growing flowers, seed germination, and principles of landscape design. Students will gain an appreciation for the beauty and importance of plants and proper landscape design. Projects include growing a variety of plants and development of a home landscape plan. Students will enjoy a variety of opportunities to learn from experts in the industry, by taking field trips, and practicing everything they learn through hands on projects.

**20110 Supervised Agricultural Experience Ag Business****Grades 10, 11, 12****1 Trimester**

**Prerequisite: Consent of the instructor must be received before registering for this course.**

This class is designed for those students who have taken an Agricultural Course and want to continue to learn and work in a specific area of Agricultural Business. This is designed to occur during the summer months. Any business that is related to agriculture is allowed. Students must attend a one-day class at the beginning of the summer to learn the expectations of this class and some basic record keeping skills. If the student's schedule allows for it, this work experience can also be taken during the school year.

**20111 Supervised Agricultural Experience Ag Production****Grades 10, 11, 12****1 Trimester**

**Prerequisite: Consent of the instructor must be received before registering for this course.**

Similar to Supervised Agricultural Experience with an emphasis in production.

**National FFA Organization**

**Students who join FFA need 1.0 credit per year from the Agriculture department in order to participate in FFA activities at the region, state and national level.**

# ART

## Art Department's Materials Fee will be collected through FeePay

Our Art classes are funded solely on the materials fee's student's pay for each class. The materials fee covers all materials for that particular class. If students cannot pay the entire fee at once at the end of the second week of the trimester, they can work out a solution with the teacher and pay smaller amounts over time to cover the cost of the materials. Photography and Ceramics are the most expensive art classes, the materials are rarely reusable and therefore we cannot give out extras if students waste their supplies. Those students that qualify for free or reduced lunch may also qualify for reduced materials fee's in art classes, these students should speak with the teacher.

**20201 Sculpture I** **Grades 9, 10, 11, 12** **1 Trimester**  
**Materials Fee: \$25.00**

This class is an introduction to the three-dimensional art of sculpture. Various materials or media such as: plaster, foam, wire, additive and subtractive sculptural techniques will be used. Works of sculptors past and present will be studied.

**20202 Sculpture II** **Grades 9, 10, 11, 12** **1 Trimester**  
**Prerequisite: Sculpture I**  
**Materials Fee: \$25.00**

This class is an expansion of learning to use various forms of sculptural art. A variety of three dimensional materials will be used to construct four major projects. Additive and subtractive sculptural techniques will be used. Master Sculptors and more of the history of sculpture will be covered.

**20203 Ceramics I** **Grades 9, 10, 11, 12** **1 Trimester**  
**Materials Fee: \$30.00**

This course offers an introduction to basic hand-building techniques. Included in the study will be pinch, coil, & slab techniques. Good craftsmanship, construction, and creativity will be emphasized.

**20204 Ceramics II** **Grades 9, 10, 11, 12** **1 Trimester**  
**Prerequisite: Ceramics I**  
**Materials Fee: \$30.00**

Wheel techniques will be introduced. Glazing and other surface decoration will be pursued. Good craftsmanship, construction, and creativity will be emphasized.

**20205 Ceramics III** **Grades 10, 11, 12** **1 Trimester**  
**Prerequisite: C or better in Ceramics II**  
**Materials Fee: \$30.00**

This course will be taught as a college introduction to ceramics course, Students should be highly motivated to work independently, spend additional time outside of class, and produce high quality, college level work.

**20206 Drawing I** **Grades 9, 10, 11, 12** **1 Trimester**  
**Materials Fee: \$10.00**

**This class will be a prerequisite for Drawing II, Painting II, Graphics II and Advanced Art Studio classes.**

Improve your drawing ability! Through carefully guided lessons of basic drawing techniques everyone can improve his/her drawing skills. If you love to draw or would like to improve your drawing ability this class is for you.

**20207 Drawing II** **Grades 9, 10, 11, 12** **1 Trimester**  
**Prerequisite: Drawing I**  
**Materials Fee: \$10.00**

Refinement and expansion of basic drawing skills and developing one's individual style are the goals of this class.

ART

**20208 Graphic Design I****Grades 9, 10, 11, 12****1 Trimester****Materials Fee: none**

This course will explore the field of Graphic Design through various types of media. The students will study Design and Illustration software, Elements of Design, Principles of Design and Commercial Design. There will be an introduction to historic and contemporary designers. An understanding of a graphic design's role in future industries will be covered.

**20218 Graphic Design II****Grades 10, 11, 12****1 Trimester****Materials Fee: none****Prerequisite: Graphic Design I**

Students will take graphic design to a higher level. You will learn the difference between fine art and design illustration. Professional graphic designers have strong drawing skills. An introduction to the tools needed to define and illustrate. Students will get an overview of what typography is and the integral role it plays in graphic design. Students will be introduced to the theory of color and will learn the vocabulary and tools needed to create and talk about color design. They will also learn the basic tools they need to shoot photography as a graphic designer. Students will learn the essential elements of composition and layout design. Students will learn the importance of marketing themselves and their work and complete a professional portfolio.

**20209 Painting I****Grades 9, 10, 11, 12****1 Trimester****Materials Fee: \$20.00**

An introduction to basic knowledge of color theory, tools and techniques in acrylic, watercolor and mixed media. Learning different painting techniques and art styles.

**20210 Painting II****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Painting I****Materials Fee: \$20.00**

Students continue to explore painting methods. This class is designed to help students become more aware of painting as an art form and have experience using color as a way to communicate ideas and feelings. They will work in composition and explore art styles as they continue to develop their individual styles. Taking Drawing I is highly recommended before taking this course.

**20211 Photography I****Grades 9, 10, 11, 12****1 Trimester****Materials Fee: \$30.00**

This course is designed for those who are looking to learn more about the art of Photography. You will learn how to use a single lens reflex camera (SLR), how to create photography with traditional darkroom techniques: develop negatives and prints. You will learn about digital photography and the basics of using Photoshop as an editing tool. Students are required to use one of our manual SLR's, per a rental contract OR provide their own 35mm SLR camera with manual functions.

**20212 Photography II****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Photography I****Materials Fee: \$30.00**

This course provides further exploration of photography as an art form. Students will be working with advanced camera and darkroom techniques such as sepia toning, hand coloring, and darkroom manipulating and pushing/pulling film. Students will get a taste of some real world aspects of photography such as photojournalism and studio photography. More digital photography will also be covered in this course using Photoshop. Students are required to use one of our manual SLR's, per a rental contract OR provide their own 35mm SLR camera with manual functions.



**20213 Photography III** **Grades 10, 11, 12** **1 Trimester**

**Prerequisite: C or better in Photography II**

**Materials Fee: \$30.00**

This course will be taught as a college introduction to photography course, Students should be highly motivated to work independently, spend additional time outside of class, and produce high quality, college level work. Students will develop photography skills through photographing subject areas of own interest. Students will learn how to create special effects in the darkroom such as overlays, negative printing, solarizing, and more! Students will work more in depth with Photoshop to manipulate digital photography. Students are required to use one of our manual SLR's, per a rental contract OR provide their own 35mm SLR camera with manual functions.

**20217 AP Advanced Studio Art A** **Grades 11, 12** **1 Trimester**

**20227 AP Advanced Studio Art B** **Grades 11, 12** **1 Trimester**

**Materials Fee: \$30.00 per trimester**

**Prerequisite: Drawing 1 plus an entire series of any other medium such as Painting 1 and 2, Photography 1, 2 and 3, Graphic Design 1 and 2, Sculpture 1 and 2, Ceramics 1, 2, and 3, OR Drawing 1 and 2**

This course is two trimesters. Students must sign up for Trimesters A and B. This course is the study of the practical experience of art. The primary unit of study is determined by student interest. Students have the option of creating a portfolio in one of the following areas: Drawing, 2-D design, or 3-D design. The students will demonstrate learning through a portfolio, which shows a fundamental competence and range of understanding in visual concerns and methods. AP Studio Art is recommended for students who are seriously interested in the practical experience of art.

**20214 Tiger Publications: Yearbook and Prowler Press Fall** **Grades 10, 11, 12** **1 Trimester**

**20215 Tiger Publications: Yearbook and Prowler Press Winter** **Grades 10, 11, 12** **1 Trimester**

**20216 Tiger Publications: Yearbook and Prowler Press Spring** **Grades 10, 11, 12** **1 Trimester**

**Materials Fee: none**

\* This course will satisfy an art credit requirement.

This course is centered on the production of both the school newspaper and the yearbook. Students will document school events for the yearbook and the Prowler Press. They will also learn to use the technology necessary to produce both publications. This course will require a great deal of self-motivation and independent work skills. Students are permitted to register for a trimester or for the entire year.

**20420 Humanities A** **Grades 11, 12** **1 Trimester**

**20462 Humanities B** **Grades 11, 12** **1 Trimester**

**This is a two-trimester course. Students will receive one English credit and one art credit. Students must sign up for Trimesters A and B.**

Students will explore the history and philosophy of art, architecture, literature, music, dance, theater, and film. The aim of the course is to bring students into direct and personal contact with the great art and ideas of each age and to help him or her to find a fuller life through studying the attempts of great individual creators and thinkers to express their own unique, yet universal humanity.

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# BUSINESS EDUCATION

## 20301 Accounting I

Grades 9, 10, 11, 12

1 Trimester

Looking into a career in the business world? Accounting is the gateway into many occupations in today's world with high-paying entry level jobs. Careers in accounting are in great demand. So let's get started. We will begin with the basics of accounting using a service business that is owned by one person.

## 20302 Accounting II

Grades 9, 10, 11, 12

1 Trimester

Prerequisite: Accounting I

Continue to discover what a successful and rewarding career opportunity in accounting has to offer. Let's take a step forward and advance the accounting basics to the world of merchandising and corporations. We will expand to new transactions and ledgers, add payroll for our employees, and include additional financial statements. Completing both I and II may earn college credit.

## 20303 Accounting III

Grades 10, 11, 12

1 Trimester

Prerequisite: Accounting I and II

For those who wish to make it big in any industry, accounting is an essential place to continue. The more you can learn about the advanced accounting practices, the better your chances and the broader the opportunities for achieving success in the businesses of today. Remember, accounting is the language of business.

## 20307 Computer Keyboarding

Grades 9, 10, 11, 12

1 Trimester

Keyboarding/Word Processing is a skill that will benefit everyone in high school, college, on the job, and at home. No one should complete high school without this skill. This course will teach you how to use the keyboard effectively in order to create professional looking documents. One goal will be to increase your speed and accuracy while creating and formatting documents. You will learn to format letters, envelopes/labels, reports, memos, tables along with other documents. May earn college credit.

## 20309 Entrepreneurship

Grades 10, 11, 12

1 Trimester

Being an entrepreneur is becoming the way of business in today's world. Be your own boss! If this sounds good to you, this is the class where you will build your business plan for the type of business that you would like to own. You will select a business, the type of product/service, the marketing, and all the other decisions that need to be made to start that dream of yours.

## 20310 Excel in Today's Business World

Grades 9, 10, 11, 12

1 Trimester

Are you comfortable using Excel? Students will develop a solid understanding of how math plays a huge part in the business world. Exercises will be provided that will allow students to use Excel to enhance their learning of spreadsheet applications.

## 20311 Microsoft Word

Grades 9, 10, 11, 12

1 Trimester

Prerequisite: Keyboard proficiency.

Let's explore all there is to know about Microsoft Word! Learn tips and tricks in Word to impress any audience, teacher, or future employer. Using desktop computers students will create brochures, tables, charts, reports, resumes, cover letters, and mail merges. Develop advance word processing skills for future high school, college, and career success!

## 20312 Microsoft Office

Grades 9, 10, 11, 12

1 Trimester

Prerequisite: Keyboard Proficiency.

2010 Microsoft Office is a powerful program. Do you know all that it has to offer? We will learn spreadsheets using Excel, learn to manage data using Access, learn to present information using PowerPoint, review/learn word processing with Word to create exciting yet professional documents. All that in one class! Every student should take this course for a successful college experience and/or career. May earn college credit.

**20313 Personal Finance** **Grades 9, 10, 11, 12** **1 Trimester**  
You have the power to create a successful future by learning how to manage your personal finances. Learn how the choices we make now may affect us in our future earnings. Managing your personal finances is an issue that everyone faces. The knowledge of money management can provide you with the skills to deal with financial matters in business and personal situations. Students will discuss real life topics that will include money management (budgets), checking/savings accounts, credit cards/identity theft, income taxes (1040ez), insurance and other financial situations. This course is designed to teach FINANCIAL LITERACY.

**20314 Personal Law I** **Grades 9, 10, 11, 12** **1 Trimester**  
Do you know your rights? This course is loaded with interesting topics that provide an awareness of the laws that are essential in the lives of most people. Personal Law impacts not only business but the lives of everyone in our society. For example, knowing the law before you sign a contract can avoid costly mistakes. This is a course for EVERYONE! Learn what your legal rights and responsibilities are as a minor and as an adult.

**20315 Personal Law II** **Grades 9, 10, 11, 12** **1 Trimester**  
**Prerequisite: Personal Law A**  
This course will allow you to dig a little deeper into your business and personal legal rights as we discuss employer/employee obligations, unions and employment relationships, discrimination in employment, safety on the job, follow current cases in the media, bankruptcy and more. After completion of this class, students will show an improved insight and appreciation of rights and duties in business and personal law.

**20316 Retail Experience I** **Grades 9, 10, 11, 12** **1 Trimester**  
Join the team for the Tiger Shack. Along with the actual operation of the store, we will learn what it takes to run a successful school-based business and then apply those concepts to our store. As a team member, you will be involved in the setup and operation. **Students are required to work at school events outside the regular school day.**

**20317 Retail Experience II** **Grades 9, 10, 11, 12** **1 Trimester**  
**Prerequisite: Retail Experience I**  
There is still more to learning how a retail business operates; so we will continue to operate and improve the store while applying these new concepts. Marketing our products will be our challenge. This course will help build your resume with retail experience and simulate a real job experience. **Students are required to work at school events outside the regular school day.**

**20318 Retail Management I** **Grades 11, 12** **1 Trimester**  
**20319 Retail Management II** **Grades 11, 12** **1 Trimester**

**Prerequisite: Retail Experience I and II**  
Want to be in the manager spot? Join us with your years' experience in the Tiger Shack and be a leader. You will be Mrs. Luecke's assistant, be an instructor to the newcomers, and be in charge of certain departments. Management experience on your résumé would be great. **Students are required to work at school events outside the regular school day.**

**20320 Skills for Success** **Grades 9, 10, 11, 12** **1 Trimester**  
This course will give you the tools to become a successful student! The recipe for learning is developing the tools and skills necessary to improve your personal and academic success. This course is designed for students who want to learn efficient/effective study skills for high school and/or post-secondary use. Emphasis will be placed on acknowledging your learning styles as you apply them to improving concentration, time-management, goal setting, test-taking, reading comprehension, vocabulary, and note-taking strategies. Get on the road to success.

**20322 Sports and Entertainment Marketing** **Grade 9, 10, 11, 12** **1 Trimester**  
Sports and Entertainment are one of the most competitive and exciting businesses in the world. This course will take you on a step-by-step journey through the world of marketing and its purpose in the sports and entertainment business. This is a fast paced course which will challenge students by combining business and marketing through the eyes of athletics and showbiz!

**21302 Business Seminar** **Grades 11, 12** **1 Trimester**

**This class is a prerequisite for the Cosmetology program or the Work-Based Program.**

Join the world of work and perfect your skills to get the job you deserve! This course will discuss topics that focus on job preparation (job applications, resumes, interviewing), workplace management, work related laws, human relations on the job and more. Students will leave with a portfolio of useful documents to be used to prepare them for the world of work and in finding that perfect job!

\*The Business Seminar class may be taken as an elective without taking the Work-Based program.

**21303 Work-Based Program A** **Grade 12** **1 Trimester**

**21304 Work-Based Program B** **Grade 12** **1 Trimester**

**21305 Work-Based Program C** **Grade 12** **1 Trimester**

**Prerequisite: Students must have completed or be currently enrolled in the Business Seminar course in order to be enrolled in the Work-Based Program.**

**Students will be able to take this course up to three trimesters and earn up to three credits.**

This course will allow students to “Earn While You Learn” and develop employable skills. This is done through an agreement with the student, the school, and your current employer. Prerequisite of this class is to have completed or be currently enrolled in the business seminar course. Students who sign up for the Work-Program should currently be employed and have means of transportation. Students will be allowed to leave school and begin work before the end of the school day if classes are scheduled accordingly. Students must work a minimum 10 hours a week and a maximum of 32 hours a week.

**How students can be a part of the Work-Based Program:**

\*Register for the Business Seminar course as a Junior or Senior

\*Register for the Work-Based Program your Senior year (can earn up to three credits)

\*Students registering for the work-based program are recommended to see Mrs. Stewart or speak to a counselor.

**21309 Mentor Program: Fall** **Grade 12** **2 Credits**

**21310 Mentor Program: Winter** **Grade 12** **2 Credits**

**21311 Mentor Program: Spring** **Grade 12** **2 Credits**

This course provides seniors who have a clear post-high school career goal the opportunity to prepare for and participate in a mentorship program with a professional in their chosen career field. The Mentor Program is a 2-credit, one trimester course offered fall, winter, and spring trimesters. The course consists of 2 to 3 weeks of Seminar Class and approximately nine weeks of Field Experience. Seminar class includes resume writing, career goal setting, and in-depth research in the students’ selected career area. For the Field Experience, students are released the last two class periods of the day to go to their mentor site, where they will intern with a professional in that career area. Students need to put in a minimum of 8 hours per week with their mentor. Students are responsible for their own transportation to and from the mentor site. Students interested in pursuing a placement in the Mentor Program for the senior year at FHS, must complete an application and interview process. Application deadline is February 19<sup>th</sup>. See your counselor or Ms. Stewart for an application. Student interviews will be set up by Mrs. Stewart after applications are received and reviewed.

**21312 Service Learning** **Grades 11, 12** **1 Trimester**

Service learning can enhance academic learning and have a significant impact on our community by volunteering their time. Students will actively engage in activities that focus on community needs that will promote student learning and development in our society. All students registering for this class should have a means of transportation to and from their service learning site. Students may be able to take this course up to two trimesters and earn credit.

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## **CAREER & TECHNOLOGY EDUCATION AND ADDITIONAL PROGRAM OFFERINGS**

### **20501 Exploring Careers**

**Grades 9, 10, 11, 12**

**1 Trimester**

This course serves as an introductory level course designed to allow students the opportunity to explore potential careers related to their interest and skill levels. Students will begin the course by assessing their own personality and technical skills area. Focus will be placed on the career area that matches their personal strengths and skills. Students will learn through classroom dialogue, discussions, and hands-on experience. The Minnesota Career Information System and guest speakers from the community will serve as key components of the course. Students will also gain basic skills needed to be competitive in the job market today such as job interviewing skills and resume building.

### **20502 Career Success**

**Grades 11, 12**

**1 Trimester**

What do you need to be successful in a career? Update what you need to know to prepare yourself for post secondary training and education--including gaining program admission and completing financial aid applications. Plus, you can gain the edge on getting into your job and career. You will update your resume, increase self-knowledge, and discover keys to selling your skills to perspective employers in a way that can help get and keep the job you want. Discover how to build teamwork, develop effective communication, increase conflict management skills and practice ethical decision-making at your workplace. The creation of a career portfolio is part of this course.

### **21306 Cosmetology Program A**

**Grade 12**

**1 Trimester**

### **21307 Cosmetology Program B**

**Grade 12**

**1 Trimester**

### **21308 Cosmetology Program C**

**Grade 12**

**1 Trimester**

**Prerequisite: 1 Trimester of Business Seminar**

**In cooperation with the Minnesota School of Beauty, Lakeville, MN**

Any student interested in the Cosmetology program must complete the MN School of Beauty application material. This application can be picked up from your counselor or Mrs. Stewart. Students must have taken the Business Seminar course their junior year or enroll in this course during their senior year. The Cosmetology Program can only be taken during your senior year. This is a full year program and any students interested will need to enroll in Cosmetology A, B, and C. Cosmetology students will be released in the afternoon to attend classes at Minnesota School of Beauty. Those attending the Minnesota School of Beauty will pay for their own kits and workbooks (approximately \$400 for the items). Tuition will be paid by ISD 192. Students will also earn credit at FHS. Any student enrolling in this program must have a means of transportation.

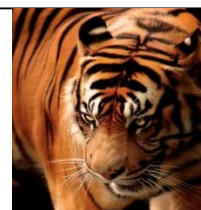
### **How students can be a part of the Cosmetology Program in cooperation with MN School of Beauty, Lakeville, MN**

- \*Register for the Business Seminar course as a Junior or a Senior.
- \*Register for the Cosmetology Program your senior year for all three trimesters (this is a full year program)
- \*Complete the MN School of Beauty application material including a short essay on why you are interested in the beauty industry. (See Ms. Stewart or speak to a counselor for application material)
- \*An interview with a representative from MN School of Beauty will be set up after application materials have been received. (Students will receive a phone call during the summer from a MN School of Beauty representative explaining the program in greater detail.)

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# English Department Course Selection



<p><b>9<sup>th</sup> Grade</b> Requirement</p>	<p>OR</p> <table border="0" style="width: 100%;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">English 9A</td> <td style="text-align: center;">AND</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">English 9B</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">Honors English 9A</td> <td style="text-align: center;">AND</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">Honors English 9B</td> </tr> </table>	English 9A	AND	English 9B	Honors English 9A	AND	Honors English 9B																																	
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# ENGLISH

20401 <u>English 9A</u>	Grade 9	1 Trimester
20402 <u>English 9B</u>	Grade 9	1 Trimester

In this course, students will increase their understanding and usage of the English language through critical listening, reading, speaking and writing. Students will explore the short story form, the novel, drama, and mythology. Students will compose different types of writing, including persuasive essays, research assignments, and visual representations.

20403 <u>Honors English 9A</u>	Grade 9	1 Trimester
20404 <u>Honors English 9B</u>	Grade 9	1 Trimester

This course is for motivated students who desire to prepare themselves for success in advanced courses in high school such as Honors English 10 and Advanced Placement U.S. History. Students are expected to engage in intensive coursework and activities that will equip them with the competent reading, writing and analytical skills to be successful in advanced courses. This course will do all of the work that English 9 does plus the addition of two enrichment units. Students are expected to complete coursework on time and to be able to work independently in and out of the classroom. Students will be asked to annotate, analyze and manipulate a variety of high level reading texts. Students will do intensive note taking, essay writing and reading. ***Students are expected to complete approximately 3-6 hours of additional work outside the classroom per week.***

20405 <u>English 10A</u>	Grade 10	1 Trimester
20406 <u>English 10B</u>	Grade 10	1 Trimester

This course examines the literary components of the short story, novel and play. Students will learn active reading strategies, proper grammar and usage for speaking and writing, and essay writing skills. Students will learn to identify major themes found in literature and to apply them to contemporary society. Students will plan, organize, and deliver a variety of speeches throughout the course.

20407 <u>Honors English 10 A</u>	Grade 10	1 Trimester
20408 <u>Honors English 10 B</u>	Grade 10	1 Trimester

Honors English 10 A and 10 B incorporate the four language skills of reading, writing, speaking, and listening. The courses focus on developing the skills for effective reading strategies in a variety of genres. They also stress writing formal papers and responding to a number of rhetorical tasks while developing critical listening and thinking skills. Honors English 10A and 10 B provide opportunities for public speaking in both large and small groups. Using both print and database sources, research skills are honed through practicing the skills of summarizing, paraphrasing, and quoting. The pace of these courses is accelerated. ***Students are expected to complete approximately 3-6 hours of additional work outside the classroom per week.***

20409 <u>English 11A</u>	Grade 11	1 Trimester
20410 <u>English 11B</u>	Grade 11	1 Trimester

Students in English 11 will read and analyze American novels, short stories, drama, poetry, and nonfiction to determine key themes and discuss how author's craft communicates meaning. Students will also write in various modes to demonstrate their knowledge of effective communication. Speaking and small group activities will be used to further language arts skills. Out of class reading and writing is required.

20460 <u>English 11A Hybrid</u>	Grade 11	1 Trimester
20461 <u>English 11B Hybrid</u>	Grade 11	1 Trimester

Students in English 11A and English 11B Hybrid will read and analyze American novels, short stories, drama, poetry, and nonfiction to determine key themes and discuss how author's craft communicates meaning. Students will also write in various modes to demonstrate their knowledge of effective communication. Speaking and small group activities will be used to further language arts skills. Out-of-class reading and writing is required. English 11A and B Hybrid fulfills the same skills as English 11A and B; in addition, students will be expected to read, write, and work independently. It is recommended that students who register for English 11 Hybrid are organized, can effectively manage their time, and are self-motivated.

20411 <u>Advanced Placement English Language and Composition A</u>	Grade 11	1 Trimester
20412 <u>Advanced Placement English Language and Composition B</u>	Grade 11	1 Trimester
20413 <u>Advanced Placement English Language and Composition C</u>	Grade 11	1 Trimester

**This is a year long course. Students must sign up for Trimesters A, B, and C.**

This rigorous course involves reading and writing at an advanced level and fulfills the English 11 course requirements as well as meets all of the requirements of the AP College Board as set forth in their course description. The main focus of this course is to study *how* the text creates meaning as students study rhetorical devices and other features of language. While nonfiction is a primary focus for this course, students will read fiction as argument. Students will also write in a variety of modes and use texts as models for their own writing. Students are expected to take the Advanced Placement Language and Composition Exam, which is administered in the spring of each year. ***Students are expected to complete approximately 5-8 hours of additional work outside the classroom per week.***

20414 <u>Advanced Placement English Literature and Composition A</u>	Grade 12	1 Trimester
20415 <u>Advanced Placement English Literature and Composition B</u>	Grade 12	1 Trimester
20416 <u>Advanced Placement English Literature and Composition C</u>	Grade 12	1 Trimester

**This is a year long course. Students must sign up for Trimesters A, B and C.**

This rigorous course involves reading and writing at an advanced level. Students will learn to read closely some demanding works of fiction, poetry, and drama and to write graceful, well-structured explications and analyses of those pieces. Students in this class are expected to take the Advanced Placement Exam for Literature and Composition, which is administered in the spring of each year. ***Students are expected to complete approximately 3-6 hours of additional work outside the classroom per week.***

20417 <u>College Prep Writing: Critical Reading and Writing</u>	Grade 12	1 Trimester
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This course, which may be taught as a hybrid course, is specifically designed to prepare students for college essays. Expository essays, such as definition, comparison/contrast, and persuasion will be covered. Students will write a substantial research paper using MLA format. This course is not recommended for students who will take U of M Composition WRIT1301.

20418 <u>Contemporary Literature</u>	Grades 11, 12	1 Trimester
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This class is a thematic look at modern literature from around the world. Students will read, discuss and analyze short stories, plays, novels, poems and essays. Students will work independently and collaboratively to enhance critical understanding of the literature covered.

20419 <u>Creative Writing</u>	Grades 11, 12	1 Trimester
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This course explores a variety of modes, focusing on poetry, prose, and creative nonfiction. Students will read examples from each mode and practice a wide range of techniques for effective writing.

20450 <u>Drama</u>	Grades 11, 12	1 Trimester
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Drama is an art-form with a discrete body of knowledge including conventions, history, skills and cooperative methods of working with others. The collaborative nature of this art-form engages students in a creative process of sharing, developing and expressing emotions and ideas through their own ideas and the ideas of others. This trimester course will offer units of study on theater history, analyzing drama, performance, technical aspects, as well as putting it all together to form a complete production. No previous experience in Drama is required, but it is expected that students will be interested in learning about Drama and be willing to actively participate in class every day.

**20420 Humanities A** **Grades 11, 12** **1 Trimester**  
**20462 Humanities B** **Grades 11, 12** **1 Trimester**  
**This is a two-trimester course. Students will receive one English credit and one art credit. Students must sign up for Trimesters A and B.**

Students will explore the history and philosophy of art, architecture, literature, music, dance, theater, and film. The aim of the course is to bring students into direct and personal contact with the great art and ideas of each age and to help him or her to find a fuller life through studying the attempts of great individual creators and thinkers to express their own unique, yet universal humanity.

**20421 Journalism** **Grades 10, 11, 12** **1 Trimester**  
This is a writing course, which focuses on the basics of journalistic style. Students will learn and practice writing news, feature and opinion articles. They will write numerous articles, which must adhere to Associated Press Style. Students will learn about the history, power, and responsibility of the press.

**20422 Myth and Legend** **Grades 11, 12** **1 Trimester**  
In this course students will explore literature from various countries and cultures. Students will look at the similarities, differences, and characteristics of mythology from different time periods all around the globe. Specifically, we will focus on fairy tales, Greek and Roman myths, legends, creation myths, fables, and folklore in history and cultural development. This class will require students to relate a variety of cultures to their own lives in creative and unique ways.

**20451 Public Speaking** **Grades 11, 12** **1 Trimester**  
Overcome your stage fright. Learn to speak in front of others in a safe and fun environment. Whether you are a novice speaker or an experienced orator this class is for you! Students will learn the role of communication in their lives, the effectiveness of language, the importance of proper delivery and the tools needed to create the perfect speech for a variety of purposes and various audiences. Students will be involved in oral interpretation, debate and discussion, mock trial, as well as learning how to deliver outstanding business and school presentations, panel discussions, and school board presentations. Students may delve into Great Speeches that have changed the world, try their luck at extemporaneous, and impromptu speaking, as well group or partner speaking activities. One word at a time, one speech at a time, you will gain the confidence needed to compete and succeed in today's world! No previous course needed, all are welcome!

**20425 Shakespeare** **Grades 11, 12** **1 Trimester**  
*Et tu, Brute?* Everyone is getting into the act! Representative readings from Shakespeare's comedies and tragedies will be studied (*Hamlet, Othello, A Midsummer Night's Dream*). Highlights of Shakespeare's life and the lives of the Elizabethans will be examined.

**20428 World Literature** **Grades 11, 12** **1 Trimester**  
This course focuses on literature from around the world and from different ages. Students will gain a world perspective while reading a variety of short stories, poems, and novels by international authors. Independent reading is required, and students will analyze these texts through discussion and literary analysis writing assignments.

**20429 Technical Writing** **Grades 11, 12** **1 Trimester**  
This course will focus on strengthening the basic skills of writing: parts of speech, grammar, and sentence, paragraph, and paper structure. Students will use the written process to practice the skills needed for real-world writing. Technical Writing should not be taken if a student is taking or plans on taking College Prep Writing.

**20430 Reading for Information and Appreciation** **Grades 11, 12** **1 Trimester**  
This course is designed to enhance the student's comprehension and appreciation of literature. Students will experience a wide range of fiction and nonfiction works and have the opportunity to pursue personal interests.

**20426 Introduction to Literature-Poetry, Drama, Narrative, ENGL 1001W: (U of MN Literature)**

**CONCURRENT ENROLLMENT COURSE**

**Grade 12**

**1.5 Trimesters**

**(4 U of MN Credits)**

Offered for seniors in the top 30% of the FHS class of 2017. This course, part of the U of M's "College in the Schools" program, carries four credits from the University as well as English credit toward FHS graduation. The course will include discussion and writing about eight to ten substantial examples of Twentieth Century writing, ranging from the traditional to the avant-garde, by authors such as Kogawa, O'Brien, Allison, and Baldwin. Students study literary form, theory and interpretation, as well as responding to the books in a personal way by bringing their own experiences to bear. Writing (journals and essays) will be used to as a way to explore and learn. This course meets the University of Minnesota's "writing intensive" requirement.

**This course is not eligible to be taken Pass/No Credit.**

**20427 University Writing and Critical Reading, WRIT 1301: (U of MN Composition)**

**CONCURRENT ENROLLMENT COURSE**

**Grade 12**

**1.5 Trimesters**

**(4 U of MN Credits)**

Offered for seniors in the top 20% of the FHS class of 2017. This course, part of the University of Minnesota's "College in the Schools" program, carries four credits from the University as well as English credit toward FHS graduation. Students write five major compositions. Emphasis will be placed on writing as "process": invention, drafting, revising, and editing. Meeting deadlines, participating actively in class discussions of textbook assignments, and working effectively in peer editing groups will be required for credit. **This course is not eligible to be taken Pass/No Credit.**

***ENGLISH AS A SECOND LANGUAGE (ESL)***

**English as a Second Language A**

**Grades 9, 10, 11, 12**

**1 Trimester**

**English as a Second Language B**

**Grades 9, 10, 11, 12**

**1 Trimester**

**English as a Second Language C**

**Grades 9, 10, 11, 12**

**1 Trimester**

This class will teach students reading, writing, listening, and speaking skills for social and academic English. Students will learn vocabulary, grammar, and study skills that will help them be more successful in their other classes. In order to register, students need to be referred to ESL by the instructor.

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## **FAMILY & CONSUMER SCIENCES**

### **20505 Child Development: Developing Baby**

**Grades 9, 10, 11, 12**

**1 Trimester**

This course is designed to help you better understand the early growth and development of children. Units of study will include pregnancy (prenatal period), labor and delivery, the infant, and parenting skills. This information will guide future parents and caregivers to nurture, care for and manage the demands of babies and their parents. The physical, emotional, social, psychological, intellectual and moral development of young children is the basis. You will have an opportunity to use a Real Care Baby Simulator Doll to practice parenting skills. College credit may be earned.

### **20506 Child Development: Toddlers to Teens**

**Grades 9, 10, 11, 12**

**1 Trimester**

This course will help you understand and relate with children ages 1-12 years old. Growth, development, needs, and earlier experiences will be studied. Practical work will be done in the area of age-appropriate game and activity creation, learning disabilities, discipline techniques, parenting skills, and career options. Students will understand how the growth and development of children in these age groups affects their relationships and selves. College credit may be earned.

### **20507 Child Development Practicum**

**Grades 11, 12**

**1 Trimester**

**Prerequisite: Child Development: Developing Baby and Child Development: Toddlers to Teens**

If you are interested in working with children, taking this course will give you advanced opportunities to expand your knowledge related to children's issues. Topics will include abuse, health, learning disabilities, promoting positive behaviors, safety, and professional levels of care-giving for children. Exploring Montessori and other education methods will be part of the study. Students will help create a preschool learning lab for children and have opportunities to work directly with children. College credit may be earned.

### **20508 Family & Personal Relationships**

**Grades 9, 10, 11, 12**

**1 Trimester**

This course is designed to help you develop an understanding of the skills and behaviors needed for individual and family well being. Units will provide understanding and learning tools to better ourselves and our relationships with others, families, friends and partners. Communication skills will be emphasized and numerous topics including unhealthy relationships and human sexuality will be covered.

### **20509 Family Finances**

**Grades 9, 10, 11, 12**

**1 Trimester**

Learn how to use a checkbook, open a savings account, and other financial services like credit cards, understanding taxes, and completing simple income tax returns. These are just some of the topics covered in this class. Others involve budgeting, decision making, resource management and financial issues in family life like insurance coverage and spending habits. Learn how to read your check stub, calculate interest, shop smarter, and invest your money.

### **20510 Foods: Let's Cook**

**Grades 9, 10, 11, 12**

**1 Trimester**

This class is an introductory class into the world of food. Students will learn food basics including basic cooking techniques, terminology, measuring skills, knife skill, and nutrition. Meal planning, food safety, and sanitation will also be included. In this class students will also participate in lab experiences involving food preparation. College credit may be earned.

### **20511 Foods: Let's Eat**

**Grades 9, 10, 11, 12**

**1 Trimester**

Everyone likes to eat. But how do different foods get prepared to bring out their great flavors and give your body maximum nutrition? You'll find out as we eat our way up and down the Food Guide Pyramid. Various topics include Grains, Dairy, Meats, Fruits and Vegetables. Regional Foods will also be explored. Students will participate in food preparations labs, as well as classroom experiences in the knowledge of foods. The Food Basics course is recommended (but not required) before taking this class.

### **20512 Housing and Interior Design**

**Grades 9, 10, 11, 12**

**1 Trimester**

You will learn about choosing a place to live, designing and decorating living spaces, tips on remodeling, doing small household repairs, and housing in other cultures. Decision-making and design skills are emphasized. Students will design spaces using drawings and computer applications such as Revit Architecture. Field trips to new homes and speakers will be part of the course if resources and time allow. College credit may be earned. This class fulfills an art elective.

**20513 Fashion Design and Merchandising****Grades 9, 10, 11, 12****1 Trimester**

Explore fashion styles, trends, influences and designers. You will design clothing and make those designs come alive with color, style, design elements and appropriate fabrics. Practice merchandising and marketing methods that bring fashion from textile to stores. The history of clothing and careers in fashion design and merchandising are part of this course. Build your own fashion portfolio and develop a plan to promote those creations. You will need to provide some supplies for projects. This class fulfills an art elective.

**20514 Sew Fun (formerly Sewing Basics)****Grades 9, 10, 11, 12****1 Trimester**

You can make things that you never dreamed of out of fabric. You will use a pattern, a sewing machine, and many types of sewing tools. The many projects will teach you about the types of fabric, sewing techniques and problem-solving you need to enjoy sewing and be successful at it. Options for clothing recycling will be explored. This is an opportunity to learn how fabrics can be used to construct a variety of items and how you can be successful in the practical art of sewing. Sewing is constructing and constructing if fun in this project-based class. You will need to provide some supplies for projects.

**20517 Sew Fun II****Grades 9, 10, 11, 12****1 Trimester****Prerequisite class: Sew Fun or Sewing Basics class**

This course takes your designing and sewing knowledge to the next level with multiple opportunities to create projects that build on basic sewing and design skills. You will interpret patterns and use technical reading to create items out of fabric and textiles. We will extend your knowledge of textiles and construction methods and practice problem-solving in the creation and re-use of textile items. If you enjoy creating, sewing and working with fabric, this course will give you many opportunities to incorporate those skills and expand them to new levels. It is a hands-on, experiential class that is project based. You may need to provide some materials for projects that you keep.

**20515 Creative Textiles****Grades 9, 10, 11, 12****1 Trimester**

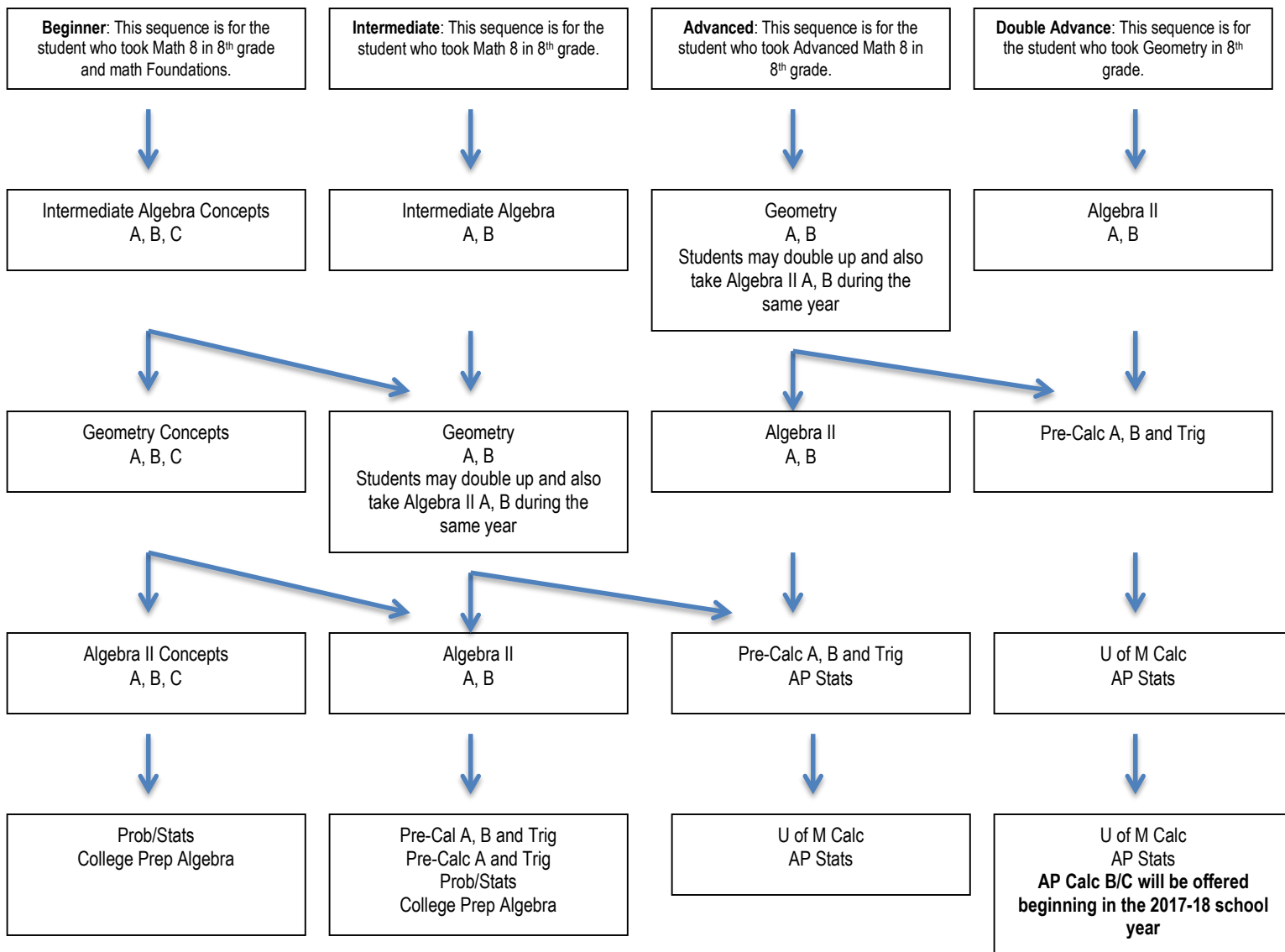
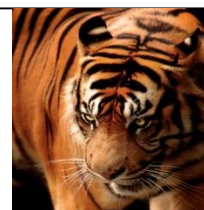
This is a hands-on class where you will use a variety of textiles to design and construct projects. Scraps, yarns and fabrics will be used in creative ways that are unique and fun. This exploration will include a combination of weaving, color dyeing, batik, quilting and other projects that expand the ways we can use fabrics and textiles to learn about the elements and principles of design. Projects will include no-sew as well as sewing options that combine fabrics with interesting materials. There will be many opportunities to design and work on individualized projects. You may need to provide some supplies for projects. This class fulfills an art elective.

**20516 Diet and Lifestyles****Grades 9, 10, 11, 12****1 Trimester**

Students who have an interest in sports or the medical, dental, or dietetic fields, or wish to expand their knowledge of food sciences -- this course is for you! Topics will review and expand topics related to the role of proper nutrition to sports, health, diseases, the life cycle, therapeutic diets, and human physiology and food chemistry. College credit may be earned.



# Mathematics Department Course Selection



The University of Minnesota now requires 4 years of math for admission on all of its campuses.

Students may double up in math and “accelerate” by taking Geometry and Algebra II during the same academic school year. Doubling up in Intermediate Algebra and Geometry or Algebra II and Pre-Calc A, B, or Trig is not permitted due to the sequencing of the material.

Students may double up in math and take Pre-Calc A, B, Trig and AP Stats.

# MATHEMATICS

It is strongly recommended that incoming 9<sup>th</sup> grade students have a graphing calculator, preferably the TI-84. We suggest getting the graphing calculator as 9<sup>th</sup> graders because students are required to have a graphing calculator throughout the remainder of their math courses. This gives the students time to get familiar with using the graphing capabilities of the calculator. The graphing calculator also gives the students an advantage when taking the ACT test.

**Please speak with your student's teacher if you have any questions.**

**20600 Intermediate Algebra A** Grades 9, 10, 11, 12 1 Trimester

**20601 Intermediate Algebra B** Grades 9, 10, 11, 12 1 Trimester

In Intermediate Algebra A students will review linear equations in one and two variables. Graphing inequalities, systems of equations and inequalities, polynomials and factoring are also covered. Intermediate Algebra B will be a continuation of Intermediate Algebra A and includes topics such as exponential, radical and rational functions and probability as well as problem solving strategies. Students are required to have a TI-30XIIS scientific calculator, but are strongly recommended to have a TI-84 graphing calculator for this course. This is a self-paced course. Students will progress at their own pace and will be given as much time as needed to complete the class at a proficient level.

**20602 Intermediate Algebra Concepts A** Grades 9, 10, 11, 12 1 Trimester

**20603 Intermediate Algebra Concepts B** Grades 9, 10, 11, 12 1 Trimester

**20604 Intermediate Algebra Concepts C** Grades 9, 10, 11, 12 1 Trimester

This course delivers the same curriculum and standards as Intermediate Algebra but is delivered over the course of three trimesters instead of two. Students registering for this course will generally have NWEA scores 2+ grade levels below standard or have scored in the Partially Meets or Does Not Meet category on the most recent MN MCA exam. Students are required to have a TI-30XIIS scientific calculator, but are strongly recommended to have a TI-84 graphing calculator for this course. **Students will also have been guided by their math teacher and school counselor if they are eligible to register for this course.**

**20605 Geometry A** Grades 9, 10, 11, 12 1 Trimester

**20606 Geometry B** Grades 9, 10, 11, 12 1 Trimester

Open to those students who have completed Intermediate Algebra A and B. Geometry emphasizes logical reasoning and problem solving. It includes inductive and deductive reasoning through the use of theorems, postulates, and axioms. Geometry A is the study of points, lines, and planes with their respect to polygons. Geometry B is the study of area of polygons, properties of circles, three dimensional solids, and basic trigonometry. The use of geometric proof will be incorporated throughout the course. Students are required to have a TI-30XIIS scientific calculator, but are strongly recommended to have a TI-84 graphing calculator for this course.

**20630 Geometry Concepts A** Grades 10, 11, 12 1 Trimester

**20631 Geometry Concepts B** Grades 10, 11, 12 1 Trimester

**20632 Geometry Concepts C** Grades 10, 11, 12 1 Trimester

This course delivers the same curriculum and standards as Geometry but is delivered over the course of three trimesters instead of two. Students registering for this course will generally have NWEA scores 2+ grade levels below standard or have scored in the Partially Meets or Does Not Meet category on the most recent MN MCA exam. Students are required to have a TI-30XIIS scientific calculator, but are strongly recommended to have a TI-84 graphing calculator for this course. **Students will also have been guided by their math teacher and school counselor if they are eligible to register for this course.**

**20611 Algebra II A** **Grades 9, 10, 11, 12** **1 Trimester**  
**20612 Algebra II B** **Grades 9, 10, 11, 12** **1 Trimester**

The emphasis is on the study of real numbers, systems of equations, factoring, graphing, functions, and relations. Algebra IIB includes equations and graphs of conic sections. Topics include working with radicals, trigonometric, and logarithmic functions. Scientific calculators will be used recognizing that they have become an integral part of the mathematical world. Students are required to have a TI-84 graphing calculator for this course. This a self-paced course. **Students will progress at their own pace and will be given as much time as needed to complete the class at a proficient level.**

**20637 Algebra II Concepts A** **Grades 10, 11, 12** **1 Trimester**  
**20638 Algebra II Concepts B** **Grades 10, 11, 12** **1 Trimester**  
**20639 Algebra II Concepts C** **Grades 10, 11, 12** **1 Trimester**

This course delivers the same curriculum and standards as Algebra II but is delivered over the course of three trimesters instead of two. Students registering for this course will generally have NWEA scores 2+ grade levels below standard or have scored in the Partially Meets or Does Not Meet category on the most recent MN MCA exam. **Students will also have been guided by their math teacher and school counselor if they are eligible to register for this course.**

**20614 Pre-Calculus A** **Grades 10, 11, 12** **1 Trimester**

Open to those students that have completed Algebra II A and B. It is recommended that students who take Pre-Calculus A have earned a B or better in Algebra II A and B. The coursework will consist of linear relations and functions, theory of equations, sequences and series, matrices and vectors, and provide a background for limits and derivatives. Students are required to have a TI-84 graphing calculator for this course.

**20634 Pre-Calculus A ZERO HOUR ONLY** **Grades 10, 11, 12** **1 Trimester**

Open to those students that have completed Algebra II A and B. It is recommended that students who take Pre-Calculus A have earned a B or better in Algebra II A and B. The coursework will consist of linear relations and functions, theory of equations, sequences and series, matrices and vectors, and provide a background for limits and derivatives. Students are required to have a TI-84 graphing calculator for this course. **PLEASE NOTE THAT THIS CLASS WILL BE OFFERED DURING ZERO HOUR (7:09am-8:15pm)**

**20626 Pre-Calculus B** **Grade 10, 11, 12** **1 Trimester**

Open to those students that have earned a B or better in Pre-Calculus A. Pre-Calculus B is a required class for juniors in the Accelerated Math Program who plan on taking U of M Calculus their senior year. It is also recommended for seniors who intend on taking Calculus in college. The coursework will be a continuation of the material in Pre-Calculus A. Students are required to have a TI-84 graphing calculator for this course.

**20635 Pre-Calculus B ZERO HOUR ONLY** **Grade 10, 11, 12** **1 Trimester**

Open to those students that have earned a B or better in Pre-Calculus A. Pre-Calculus B is a required class for juniors in the Accelerated Math Program who plan on taking U of M Calculus their senior year. It is also recommended for seniors who intend on taking Calculus in college. The coursework will be a continuation of the material in Pre-Calculus A. Students are required to have a TI-84 graphing calculator for this course. **PLEASE NOTE THAT THIS CLASS WILL BE OFFERED DURING ZERO HOUR (7:09am-8:15pm)**

**20615 Trigonometry** **Grades 10, 11, 12** **1 Trimester**

Open only to those students that have completed Pre-Calculus A. (Note: This course is only offered second and third trimester.) This course is an intense study of Trigonometry using the unit circle approach. Graphs of trigonometry functions are covered in detail. Vectors and navigational applications provide practical application to trigonometric theory. Matrices and complex numbers are also highlighted. Students are required to have a TI-84 graphing calculator for this course.

**20636 Trigonometry**                      **ZERO HOUR ONLY**                      **Grades 10, 11, 12**                      **1 Trimester**  
 Open only to those students that have completed Pre-Calculus A. (Note: This course is only offered second and third trimester.) This course is an intense study of Trigonometry using the unit circle approach. Graphs of trigonometry functions are covered in detail. Vectors and navigational applications provide practical application to trigonometric theory. Matrices and complex numbers are also highlighted. Students are required to have a TI-84 graphing calculator for this course. **PLEASE NOTE THAT THIS CLASS WILL BE OFFERED DURING ZERO HOUR (7:09am-8:15pm)**

**20616 Probability & Statistics**                      **Grades 12**                      **1 Trimester**  
 Open to seniors having completed Algebra II A and Algebra II B. This class is designed for students who struggled in Algebra II. It is a very beneficial class for the college bound student whose career plans may not involve course work in the math or science fields. It is designed to prepare students for college level Algebra classes. Students will learn probability laws and use them to calculate the probability of real events taking place. Students are required to have a TI-84 graphing calculator for this course for calculating statistical functions.

**20617 College Prep Algebra**                      **Grade 12**                      **1 Trimester**  
 Open to seniors having completed Algebra II A and Algebra II B. This class is designed for students who struggled in Algebra II. It is a very beneficial class for the college bound student whose career plans may not involve course work in the math or science fields. It is designed to prepare students for college level Algebra classes. Topics include linear, quadratic, absolute value, radical, rational, and polynomial functions. Students are required to have a TI-84 graphing calculator for this course.

### **Preface to students and parents regarding the following courses**

In response to increasing requests by students and parents for more college level and pre-college mathematics courses, two levels of Calculus are offered. One is a college level course offered through the “College in the Schools” program in cooperation with the University of MN. The other is Introduction to Calculus. This course is designed to prepare students for future college level work in mathematics. Farmington High School students enrolled in “U of M Calculus I” may receive four U of MN college credits upon successful completion of their coursework. Farmington High School also has instructional staff with Advanced Placement certifications for AP Calculus as required by the College Board. Students in the following courses are required to have graphing calculators.

**20618 Introduction to Calculus A**                      **Grade 12**                      **1 Trimester**  
**20619 Introduction to Calculus B**                      **Grade 12**                      **1 Trimester**

This is the first of a series of a two trimester class designed to introduce students to concepts and mechanics of calculus. Students enrolled should have completed Pre-Calculus A and Trigonometry with respectable grades. Topics include limits and continuity, derivative mechanics, and their application. The second trimester will focus on the mechanics of integration. Students will also study models for the application of calculus as a useful tool for solving mathematical problems. Students are required to have a TI-84 calculator for this course.

**20620 Advanced Placement Statistics A**                      **Grades 11, 12**                      **1 Trimester**  
**20621 Advanced Placement Statistics B**                      **Grades 11, 12**                      **1 Trimester**  
**20622 Advanced Placement Statistics C**                      **Grades 11, 12**                      **1 Trimester**

AP Statistics is a year long course introducing students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will observe patterns and departures from patterns, decide what and how to measure, produce models using probability and simulation, and confirm models. Appropriate technology, from manipulative to calculators and application software, will be used regularly for instruction and assessment. Students are required to have a TI-84 calculator for this course. **Juniors taking this course must also take Pre-Calculus A & B and Trigonometry in order to be considered for CIS Calculus.** Students will be required to take the AP final exam in the spring.

20627 <u>Advanced Placement Calculus B/C A</u>	Grade 12	1 Trimester
20628 <u>Advanced Placement Calculus B/C B</u>	Grade 12	1 Trimester

CLASS WILL NOT BE OFFERED UNTIL 2017-18 SCHOOL YEAR. AP Calculus B/C is a two trimester course. This course requires the completion of CIS Calculus. Students will review key concepts of CIS Calculus as well as learn differential and integral calculus topics. Students are required to have a TI-84 calculator for this course. Students will also be required to attend study sessions during academic support time during spring trimester to review for the AP final exam.

20623 <u>U of MN Calculus IA: MATH 1371</u>	Grade 12	1 Trimester
20624 <u>U of MN Calculus IB: MATH 1371</u>	Grade 12	1 Trimester
20625 <u>U of MN Calculus IC: MATH 1371</u>	Grade 12	1 Trimester

**CONCURRENT ENROLLMENT COURSE**

This course requires the completion of Pre-Calculus A, Pre-Calculus B and Trigonometry with A or A- grades as a prerequisite. This course is part of the University of MN “College in the Schools” program. Enrolling students will need to complete all three trimesters (one year) and pass the required U of MN test in order to receive University credit (4 U of MN semester credits). U of MN college credit may not be taken as pass/fail. Credit may also be earned toward graduation at FHS upon the successful completion of each trimester. Topics studied this trimester include a pre-calculus review, functions, limits, tangents, and continuity. Topics covered during the second trimester include rates of change, explicit and implicit derivatives and optimization. Topics covered during the third trimester include anti-derivatives, integration (definite and indefinite), areas under and between curves and their applications. Students are required to have a TI-84 calculator for this course. Students may also chose to take the AP Calculus test in May given at the high school by the College Board. **This course is not eligible to be taken Pass/No Credit.**

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# MUSIC

## GENERAL INFORMATION FOR PERFORMING GROUPS

Music performing groups are open to all students in Grades 9-12. All groups meet daily for one period and carry 1.0 credit per trimester. Members of choirs and bands are required to participate in all performances of their group such as concerts, contests, festivals and athletic pep bands. Certain events are sponsored by the Minnesota State High School League and members must abide by the MSHSL and school rules regarding general eligibility and use of alcohol, tobacco and drugs. In addition to participation in large groups, music students will have opportunities for participation in select small ensembles and contest solos.

## INFORMATION FOR THE TIGER BANDS

The philosophy of the Tiger Bands is to offer courses in instrumental music for persons with prior instrumental schooling who wish to enhance his/her musical knowledge in a personal and ensemble setting. Students are required to attend regularly scheduled lessons to perform their lesson/band assignments that are pulled out of their ensemble class.

Courses consist of rehearsal performances, public performances, and lesson performances all of which are graded requirements of the course. Different styles of music are taught during the year. Instrumental technique on each student's individual instrument will be taught by the way of lessons, assignments, and evaluations throughout the year. Attendance at lessons, performances and in class will be a prime factor in the student's success in band.

All 9<sup>th</sup> grade students should register for Varsity Band. Students 10-12 should register for Concert Band. In the spring of the school year, students in grades 10-12 will audition for band placement to either the Concert Band, Symphonic Band or Wind Ensemble. Membership in these groups is for the full school year.

<b>20701 Varsity Band A</b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b>20702 Varsity Band B</b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b>20703 Varsity Band C</b>	<b>Grade 9</b>	<b>1 Trimester</b>

This group is generally a composite of 9<sup>th</sup> grade students who show an interest in instrumental technique, musicianship, and dedication. The band will perform high quality band music in both the large and small group setting. If a student is returning to band after missing a year or two (grades 10-12) and has previously performed in band, they should register for this class. Reevaluation will take place after the first trimester is complete.

<b>20736 Concert Band A</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20737 Concert Band B</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20738 Concert Band C</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>

This group is a composite of students who will show a high degree of sophistication in instrumental technique, musicianship, and dedication. The band will perform high quality band music in both the large and small group setting.

Jazz Band is a performing group for all band students interested in developing a background in playing jazz. Different styles of jazz will be studied. Instructor approval required, and will be based on instrumentation needs and requirements. Concurrent participation in a concert band is required. All students interested in participating in Jazz Band should register for Jazz Band for the full school year. Auditions will be held in the spring to determine placement and the number of groups.

<b>20710 Jazz Band A</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20711 Jazz Band B</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20712 Jazz Band C</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>

Jazz Band is a jazz education class. All types of modern, pop, jazz and related forms of jazz music will be studied. Required record album listening with academic assignments will be included along with many performances and the study of jazz history and jazz theory. Performance outside of class will be a major portion of the class work. This course may only be taken by approval of the instructor with special regard to pre-determined balance and instrumentation acceptable to the style of music performed. Membership in these groups is for the full school year. **THIS COURSE WILL BE OFFERED DURING ZERO HOUR (7:15am – 8:15am)**

**Students participating in Jazz Band or selected for the Wind Ensemble, are strongly encouraged to take lessons privately.**

## **INFORMATION FOR THE TIGER CHOIRS**

These courses will consist of the rehearsal, study and performance of a wide variety of serious and popular music from all periods of time as well as the study of vocal technique and fundamentals of notation and sight-reading. Students must plan to give full effort and concentration during each class period as a majority of the grade is based on participation.

All male students should register for Men's Choir and all female students should register for Women's Choir, regardless of the choir they have been in previously. Students will be placed in the appropriate choir (either Men's Choir, Women's Choir, Cantabile, or Concert Choir) after completing their audition. Membership in all groups is for a full school year.

<b>20713 <u>Women's Choir A</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b>20714 <u>Women's Choir B</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b>20715 <u>Women's Choir C</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>

Women's Choir is a treble voice choir. Admission is open to any girl in Grades 9-12 without an audition. Emphasis will be on preparing students to enter Cantabile, or Concert Choir. The focus of this course will be on developing basic vocal techniques, music theory, sight-reading and proper vocal technique. Auditions are held during the third trimester of each school year to assure balance and maintain a high standard of excellence.

**If a female is new to the choir program, they are required to be in this ensemble for their first year.**

<b>20716 <u>Men's Choir A</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b>20717 <u>Men's Choir B</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b>20718 <u>Men's Choir C</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>

Men's Choir is a male choir. Admission is open to any guy in Grades 9-12 without an audition. Emphasis will be on preparing students to enter Concert Choir. The focus of this course will be on developing basic vocal techniques, music theory, sight-reading and proper vocal technique. Auditions are held during the third trimester of each school year to assure balance and maintain a high standard of excellence.

**If a male is new to the choir program, they are required to be in this ensemble for their first year.**

<b>20725 <u>9th Grade Band-Choir A</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b>20726 <u>9th Grade Band-Choir B</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b>20727 <u>9th Grade Band-Choir C</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>

This course number is for 9th graders who wish to participate in both 9th Grade Band (20701, 20702, 20703) and Choir. See these courses for further descriptions. Students will participate in both courses on a rotating schedule determined by directors. Students will be graded on assignments in both courses as determined by directors. Approval from directors must be obtained to sign up for this course number.



## PHYSICAL EDUCATION/HEALTH

The following courses were designed so that the student will acquire an appreciation of and a respect for good physical fitness, and develop an interest and a desire to participate in lifetime recreational activities. All courses are co-educational. Students must successfully complete two trimesters of the necessary physical education courses in order to graduate.

### **20801 Physical Education 9**

**Grade 9**

**1 Trimester**

Students will be taught rules, skills, strategies and etiquette associated with physical education activities, particularly lifetime sports, so they will be properly educated about how to live a healthy life now and in the future. Fitness will be an emphasis for all units. Indoor and outdoor activities will be included each trimester. Students may be charged a fee for some activities. This course satisfies the 9<sup>th</sup> Grade Physical Education requirement.

### **20802 Fitness for Life**

**Grade 9**

**1 Trimester**

This activity class will focus heavily on health-related fitness and its components: aerobic endurance, muscular strength, muscular endurance and nutrition. Students will be creating their own fitness plans and will implement them during the semester. By taking an in-depth look at different fitness topics, students will acquire the tools and knowledge necessary to effectively include fitness in their daily lives into adulthood. This course satisfies the 9<sup>th</sup> Grade Physical Education requirement.

### **20803 Physical Education 10**

**Grade 10**

**1 Trimester**

The students will demonstrate understanding that physical activity provides opportunities for enjoyment, physical challenges, self-expression, and social interaction. The course will expand on principles learned in Physical Education 9. Students may be charged a fee for some activities. This course satisfies the 10<sup>th</sup> Grade Physical Education requirement.

### **20804 Sports Conditioning: Fall**

**Grades 10, 11, 12**

**1 Trimester**

### **20805 Sports Conditioning: Winter**

**Grades 10, 11, 12**

**1 Trimester**

### **20806 Sports Conditioning: Spring**

**Grades 10, 11, 12**

**1 Trimester**

Students may take up to four trimesters of Sports Conditioning starting their sophomore year. They could take one section per trimester at any time during and after their sophomore year as it fits with their overall credit schedule/plan. Instruction will be individualized for students within each section to meet each students needs and progress.

### **20817 Advanced Sports Conditioning**

**Grades 11, 12**

**1 Trimester**

This class is for students who have completed a minimum of two sections of Sports Conditioning in good standing. This class allows those students to take their knowledge of our weight training programs and create their own individualized program with the guidance of the teacher. Students may incorporate pieces of current fitness and weight training programs that may not have been included in previous courses.

### **20807 Weight Training: Fall**

**Grades 10, 11, 12**

**1 Trimester**

### **20808 Weight Training: Winter**

**Grades 10, 11, 12**

**1 Trimester**

### **20809 Weight Training: Spring**

**Grades 10, 11, 12**

**1 Trimester**

Students may take up to five trimesters of weight training starting their sophomore year. They could take one section per trimester at any time during and after their sophomore year as it fits with their overall credit schedule/plan. Instruction will be individualized for students within each section to meet each students needs and progress.

### **20818 Advanced Weight Training**

**Grades 11, 12**

**1 Trimester**

This class is for students who have completed a minimum of two sections of Weight Training in good standing. This class allows those students to take their knowledge of our weight training programs and create their own individualized program with the guidance of the teacher. Students may incorporate pieces of current fitness and weight training programs that may not have been included in previous courses.

<b>20810 <u>Aerobics: Fall</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20820 <u>Aerobics: Winter</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20821 <u>Aerobics: Spring</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>

Students may take up to three trimesters of Aerobics starting their sophomore year. They could take one section per trimester at any time during and after their sophomore year as it fits with their overall credit schedule/plan. Instruction will be individualized for students within each section to meet each students needs and progress.

<b>20811 <u>Recreational Activities</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
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This course emphasizes active participation, teamwork, and sportsmanship. Some of the activities that will be included in this course are: Ultimate Frisbee, Softball, Badminton, Pickleball, Table Tennis, Volleyball, Kickball, 4-Square, Dodgeball, and Bowling. Students will be charged a bowling fee for this course.

<b>20812 <u>Senior Health Club</u></b>	<b>Grade 12</b>	<b>1 Trimester</b>
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**This course is open to students that have demonstrated an ability to do well in previous Physical Education courses.**

This course is a self directed class, available only to seniors who have demonstrated a strong interest in fitness. Students must exhibit a high level in individual responsibility and work ethic. Students will be exercising in a health club type atmosphere utilizing the school's facilities, including the cardio room, weight room, studio, and walking track. Students will design and implement their own personal fitness programs.

<b>20813 <u>Team Sports – Fall/Spring</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
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This course is offered to students who have a strong interest and appreciation for team sports. A strong emphasis is placed on active participation, teamwork, respect for others, sportsmanship, and promotion of a good self-concept. Students may be charged a fee for participation in some units. Units may include such activities as football, soccer, softball, as well as other team sports. The majority of the activities will take place outdoors. Students should be aware that this is a highly competitive course and should have an expectation for strong participation in games, tournaments and contests. Sports and units covered in the fall and spring trimester will be the same.

<b>20814 <u>Team Sports – Winter</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
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This course is offered to students who have a strong interest and appreciation for team sports. A strong emphasis is placed on active participation, teamwork, respect for others, sportsmanship, and promotion of a good self-concept. Students may be charged a fee for participation in some units. Units may include such activities as volleyball, basketball, team handball, as well as other team sports. The majority of the activities will take place indoors. Students should be aware that this is a highly competitive course and should have an expectation for strong participation in games, tournaments and contests.

## **HEALTH**

<b>20815 <u>Health Issues</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
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This required course allows students to satisfy State Standards by exploring nutrition, sex education, mental health and chemical dependency, extensive group work, research and planning, self and peer evaluation and personal experience.

<b>20816 <u>Health Issues</u> ZERO HOUR ONLY</b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
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This required course allows students to satisfy State Standards by exploring nutrition, sex education, mental health and chemical dependency, extensive group work, research and planning, self and peer evaluation and personal experience. This may be taught as a blended class which would require online curriculum and face to face work.

**PLEASE NOTE THAT THIS CLASS WILL BE OFFERED DURING ZERO HOUR (7:09am – 8:15am)**

# READING

**Reading for Proficiency A**

**Grades 9, 10, 11**

**1 Trimester**

**Reading for Proficiency B**

**Grades 9, 10, 11**

**1 Trimester**

This course follows a “reading workshop” model of instruction that includes direct instruction in reading strategies, group work, independent reading and individual conferencing with the teacher to work on individual interventions. Students qualify for this course if they consistently record NWEA MAP test scores 2+ grade level below standard.

**Reading for Proficiency 11A**

**Grade 11**

**1 Trimester**

**Reading for Proficiency 11B**

**Grade 11**

**1 Trimester**

This class focuses on the reading skills needed to be successful to meet the graduation testing requirements of the state of Minnesota for that graduation year.

**Reading for Proficiency 12A**

**Grade 12**

**1 Trimester**

**Reading for Proficiency 12B**

**Grade 12**

**1 Trimester**

This class focuses on the reading skills needed to be successful to meet the graduation testing requirements of the state of Minnesota for that graduation year.

**READING**

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# Science Department Course Selection



<p><b>9<sup>th</sup> Grade</b> Requirement</p>	<p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Physics 9 A</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Physics 9 B</div> </div>   OR           <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Honors Physics 9 A</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Honors Physics 9 B</div> </div> </p>		
<p><b>10<sup>th</sup> Grade</b> Requirement</p>	<p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Biology A</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Biology B</div> </div>   OR           <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">AP Biology A</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">AP Biology B</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">AP Biology C</div> </div> </p>		
<p><b>11<sup>th</sup> Grade</b> Requirement</p>	<p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Introductory Chemistry</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Earth Science</div> </div>   OR           <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">Chemistry A</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Chemistry B</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">Earth Science</div> </div>   OR           <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">AP Chemistry A</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">AP Chemistry B</div> <div>AND</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">AP Chemistry C</div> </div> </p>		
<p><b>11<sup>th</sup> or 12<sup>th</sup> Grade</b> Electives</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;">           AP Biology A, B &amp; C            Introductory Chemistry            Chemistry A &amp; B            AP Chemistry A, B &amp; C            Environmental Science         </td> <td style="padding: 5px;">           History of Science            Introduction to Anatomy &amp; Physiology            Zoology            Advanced Physics A &amp; B            SCSU College Physics A &amp; B         </td> </tr> </tbody> </table>	AP Biology A, B & C Introductory Chemistry Chemistry A & B AP Chemistry A, B & C Environmental Science	History of Science Introduction to Anatomy & Physiology Zoology Advanced Physics A & B SCSU College Physics A & B
AP Biology A, B & C Introductory Chemistry Chemistry A & B AP Chemistry A, B & C Environmental Science	History of Science Introduction to Anatomy & Physiology Zoology Advanced Physics A & B SCSU College Physics A & B		
	<p>❖ Note: Minnesota Universities highly recommend Advanced Physics or SCSU College Physics</p>		
<p><b>STEM</b> 9<sup>th</sup>-12<sup>th</sup> Grade</p>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><b>Science, Technology, Engineering and Mathematics (STEM)</b>            Design for Engineering A &amp; B – Grades 9-12            Engineering Technologies A &amp; B – Grades 9-12            Applied Engineering A &amp; B – Grades 10-12</p> </div>		

**\*Students who enroll in 2 or more courses of higher rigor (AP Biology, AP Chemistry, SCSU Physics) are exempt from taking Earth Science.**

# SCIENCE

<b>20901 <u>Physics 9A</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b>20902 <u>Physics 9B</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>

The Physics 9A/B series is designed to meet MN high school requirements in physics. The goals of these courses are to give students a better understanding of the physical world around them, to help students develop their critical thinking skills, and to lay a foundation for additional science study. In Physics 9A, topics will include the study of forces, motion (linear/projectile/circular), energy/energy transfer, and the nature of science and engineering. In Physics 9B, topics will include heat, wave phenomenon (sound/EM spectrum), and electricity/magnetism.

<b>20903 <u>Honors Physics 9A</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b>20904 <u>Honors Physics 9B</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>

**This course is recommended for the highly motivated student and takes place of Physics 9A/9B.** The Honors Physics 9A/B series is designed to meet MN high school requirements in physics. The goals of these courses are to give students a better understanding of the physical world around them, to help students develop their critical thinking skills, and to lay a foundation for additional science study. **A sound foundation in Algebra is essential.** In Honors Physics 9A, topics will include the study of forces, motion (linear/projectile/circular), energy/energy transfer, and the nature of science and engineering. In Honors Physics 9B, topics will include heat, wave phenomenon (sound/EM spectrum), and electricity/magnetism. **Students are expected to complete approximately 2-4 hours of additional work outside the classroom per week.**

<b>20905 <u>Biology A</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20906 <u>Biology B</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>

Biology is the branch of science devoted to the study of life. This course is presented through an innovative, activity-driven program. It is a sequential 2 trimester curriculum that makes frequent use of human examples to engage students in the fundamental concepts of biology. Foremost among the program's innovative features is a comprehensive emphasis on the unifying concepts of biology and less emphasis on vocabulary and the memorization of disconnected facts. Major concepts and units covered include: Evolution; Homeostasis; Energy, Matter, and Organization; Continuity; Development; and Ecology. Biology A & B are designed to meet the MN Academic Science Standards.

<b>20909 <u>Advanced Placement Biology A</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20910 <u>Advanced Placement Biology B</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>
<b>20911 <u>Advanced Placement Biology C</u></b>	<b>Grades 10, 11, 12</b>	<b>1 Trimester</b>

This course is designed to be equivalent to a ONE YEAR college introductory course that is governed by the standards of College Board. The 4 Big Ideas that the course is centered around are: Evolution, Using Energy to maintain Homeostasis, Genetics & Interaction of biological systems from cells to ecosystems. In each big idea the concepts are interwoven & include many advanced labs. In the spring the students are expected to take the Advanced Placement Biology exam. **Students are expected to complete approximately 5-8 hours of additional work outside the classroom per week.**

<b>20934 <u>Introductory Chemistry</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
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Introductory Chemistry is a one trimester course that is designed to meet the Minnesota State Science Standards in chemistry. Topics covered include: atomic structure and the periodic table, chemical reactions, bonding and thermochemistry.

<b>20912 <u>Chemistry A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>20913 <u>Chemistry B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

This course is designed to give the student a solid foundation in the fundamentals of chemical theory and concepts. Through laboratory investigations, lecture, and discussion, the structure and behavior of matter will be explored. This class is presented in an individualized instruction format. This course fulfills state standards in chemistry through podcasts, labs, formative and summative assessments. The emphasis will be placed on inorganic chemistry. This course is recommended for those students planning to continue their education at a four-year college.

20916 <u>Advanced Placement Chemistry A</u>	Grades 11, 12	1 Trimester
20917 <u>Advanced Placement Chemistry B</u>	Grades 11, 12	1 Trimester
20918 <u>Advanced Placement Chemistry C</u>	Grades 11, 12	1 Trimester

**Note:** It is highly recommended that students have a strong Algebra II background and a strong interest in Chemistry. AP Chemistry builds on concepts covered in a regular or “honors” chemistry course, using greater detail in concept exploration and laboratory investigation. This course prepares students to take the AP Chemistry exam toward the end of the academic year. AP Chemistry topics include atomic theory, chemical bonding, phases of matter, solutions, types of reactions, equilibrium, reaction kinetics, and thermodynamics. **Students are expected to complete approximately 5-8 hours of additional work outside the classroom per week.**

20919 <u>Environmental Science</u>	Grades 11, 12	1 Trimester
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Environmental Science is an active, experiential project based class. It involves studying interactions of the physical, chemical, biological and social components of the environment. It will focus on studying ecosystems, human impacts on the earth including pollution, biodiversity, etc... Other focus areas include stewardship, tragedy of the commons, eco-footprints, climate debate, alternative energy, history of Minnesota’s land and economic connections to the environment (scarcity, resources & cost benefit analysis). The research process, a “working” portfolio and unit reflections will be used as the main assessments of student learning.

20920 <u>History of Science</u>	Grades 11, 12	1 Trimester
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The History of Science is a trimester long course that focuses more on science than history. We will investigate how technology facilitates new discoveries. We will explore the development of scientific knowledge and how scientific advances are often accompanied by social, political, environmental and economic changes. We will even discover that science and technology are not only influenced by global conflicts and the passage of time, but also by cultural backgrounds, regional beliefs and religion. Finally, we will analyze how it all impacts societies, civilizations and the world we live in today. The History of Science will also include several re-creations of historic experiments to access, test and apply some of the scientific discoveries that were discussed.

20933 <u>Earth Science</u>	Grades 11, 12	1 Trimester
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Earth Science is a required one-trimester course designed to cover the Minnesota State Science Standards for Earth and Space Science, as well as The Nature of Science. Topics covered include plate tectonics, geologic time, energy sources, global climate, cycles of matter, the universe, the solar system and how human interaction with the Earth affects various systems. This course may be delivered as a hybrid course.

20921 <u>Advanced Physics A</u>	Grades 11, 12	1 Trimester
20922 <u>Advanced Physics B</u>	Grades 11, 12	1 Trimester

**Note:** It is highly recommended that students have either completed or are enrolled in Trigonometry. Physics is a fundamental science that deals with matter and energy and the transformation of that matter and energy. At the end of the course, students should walk away with not only an understanding of key physics principles but also greatly developed problem-solving skills. Advanced Physics should be of interest to students with widely different career plans whether they are in the humanities or sciences, college or workforce bound. Advanced Physics A is a study of Newtonian Mechanics. The topics investigated include: vectors, kinematics, forces, trajectories, circular motion, momentum, gravity, work and energy. Advanced Physics B will begin by finishing off Newtonian Mechanics, proceeding into self-paced learning of electronics using the CASTLE curriculum and finally investigating real-world applications of the physics principles we have studied. **Students are expected to complete approximately 2-4 hours of additional work outside the classroom per week.**

**20935 SCSU College Physics A: PHYS 231**

**Grades 11, 12**

**1 Trimester**

**20936 SCSU College Physics B: PHYS 231**

**Grades 11, 12**

**1 Trimester**

**CONCURRENT ENROLLMENT COURSE**

**(3 SCSU credits)**

This course is part of the Saint Cloud State University "Senior to Sophomore" concurrent enrollment program and is offered to students in the top 50% of the class of 2015 or top 33% of the class of 2016. Units of study will include vectors; kinematics of uniformly accelerated motion; static equilibrium; work and energy; linear momentum; circular motion; rotational work, energy, and momentum; elasticity; fluid statics and dynamics; heat and temperature; kinetic theory of gases; laws of thermodynamics. Students enrolling in this course should have successfully completed or be enrolled in Pre-Calculus. **This course is not eligible to be taken Pass/No Credit.**

**20925 Introduction to Anatomy and Physiology**

**Grades 11, 12**

**1 Trimester**

The role of this course of study is to familiarize you with the structure and function of the human body. This is a college prep course that should be taken by students interested in pursuing a career in nursing, medicine, veterinary medicine, physical therapy, sports/exercise physiology, or another health related career. It is specially designed as an introductory course to prepare you for your college courses and a health related career. Major emphasis will be placed on how the systems work together in a healthy human body. We will experience traditional lecture based lessons as well as many "flipped" lessons, podcasts, and inquiry based labs. Active participation in labs, dissection, and group projects is required. Students must be able to work in both group and individual settings as a part of this course.

**20932 Zoology**

**Grades 11, 12**

**1 Trimester**

Zoology is the study of animals. In this one-trimester hybrid style course we will study the major groups of animals (phyla) on the planet. We will spend roughly equal time covering invertebrate and vertebrate animals. As we study the animals students can expect to learn about classification, anatomical structure and function of organs, and how the various animals manage to survive. We will occasionally study live specimens, some of which will be collected in and around the schoolyard. Dissection of preserved animals and lab activities are a major component of this hands-on class. Animals observed and/or dissected will include pond water organisms collected on-site, protists, hydra, planaria, vinegar eels, earthworm, clam, squid, crayfish, grasshopper, starfish, fish, frog, bird and rat. This hybrid course will offer a flexible schedule. In class seat time may differ from a traditional course.



## SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

20926 <u>Design for Engineering A</u>	Grades 9, 10, 11, 12	1 Trimester
20927 <u>Design for Engineering B</u>	Grades 9, 10, 11, 12	1 Trimester

Design! Innovate! Invent! This course will teach you basic design skills as they relate to product design and development in the field of Engineering. Use the latest in 3D modeling software to solve real-world problems while putting your design and problem solving skills to the test. Take an idea from concept, to sketch, to finished model using 3D printing technology!

20928 <u>Engineering Technologies A</u>	Grades 9, 10, 11, 12	1 Trimester
20929 <u>Engineering Technologies B</u>	Grades 9, 10, 11, 12	1 Trimester

Interested in a career in Engineering? This hands-on course will allow you to explore the many disciplines within the field of Engineering. Some of the areas that will be covered include: Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Engineering, Software Engineering, and Chemical Engineering. Each unit in this course will allow you the opportunity to learn various engineering concepts from coding to mechanisms in an active learning environment.

20930 <u>Applied Engineering A</u>	Grades 10, 11, 12	1 Trimester
20931 <u>Applied Engineering B</u>	Grades 10, 11, 12	1 Trimester

**Prerequisite: At least one of the following courses – Design for Engineering, Engineering Technologies, Introduction to Engineering Design, Principles of Engineering, Civil Engineering and Architecture**

Expand on your knowledge and experience from Design for Engineering and Engineering Technologies by applying your skills to real-life design problems. This course will consist of student teams working together to develop unique solutions to various engineering problems. This course will consist of two phases, the design phase and the production phase. In the design phase, student teams will identify problems, develop possible solutions, and create working models. In the production phase, student teams will bring their ideas to life by manufacturing a finished product. Examples projects might include: developing a product for a customer, creating a useful computer program, automating an assembly process, or developing a set of building plans for a proposed construction site.

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# Social Studies Department Course Selection



<p><b>9<sup>th</sup> Grade</b> Requirement</p>	<p>OR</p> <table border="0" style="width: 100%;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">Civics 9A</td> <td style="text-align: center;">AND</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">Civics 9B</td> </tr> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;">Honors Civics 9A</td> <td style="text-align: center;">AND</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">Honors Civics 9B</td> </tr> </table>	Civics 9A	AND	Civics 9B	Honors Civics 9A	AND	Honors Civics 9B						
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<p><b>11<sup>th</sup> or 12<sup>th</sup> Grade</b> Electives</p>	<div style="border: 1px solid black; padding: 10px;"> <p><b>Social Studies Electives:</b></p> <table border="0" style="width: 100%;"> <tr> <td>AP Microeconomics (2 trimesters)</td> <td>Sociology</td> </tr> <tr> <td>Comparative Religions</td> <td>Criminal Justice</td> </tr> <tr> <td>Cultural Geography</td> <td>**Psychology</td> </tr> <tr> <td>Current Events</td> <td>**AP Psychology (3 trimesters)</td> </tr> <tr> <td>Philosophy</td> <td>Politics and Government</td> </tr> <tr> <td>SCSU Intro to Global Georgraphy (2 trimesters)</td> <td></td> </tr> </table> <p style="text-align: center;">*All courses are one trimester in length unless otherwise noted. **Limited to seniors only.</p> </div>	AP Microeconomics (2 trimesters)	Sociology	Comparative Religions	Criminal Justice	Cultural Geography	**Psychology	Current Events	**AP Psychology (3 trimesters)	Philosophy	Politics and Government	SCSU Intro to Global Georgraphy (2 trimesters)	
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## SOCIAL STUDIES

The Civics and English 9 Departments work closely together to highlight those shared and transferable skills that are used throughout the content areas. This partnership includes supporting and enhancing each classes' skills and includes weekly shared 2-hour Skills Seminars where students will join together to learn and practice cross-curriculum skills.

**21001 Civics 9A**

**Grade 9**

**1 Trimester**

**21002 Civics 9B**

**Grade 9**

**1 Trimester**

In the first trimester of this required class students study the rights and responsibilities involved with being a member of the United States. Major Themes covered include: Citizenship; Foundations of American Government; the U.S. Constitution; and the Legislative, Executive and Judicial Branches of the United States Government. In the second trimester, students study the rights and responsibilities involved with being a member of the United States. Major themes include: the U.S. Bill of Rights; State and Local Government; Propaganda and Political Parties.

**21003 Honors Civics 9A**

**Grade 9**

**1 Trimester**

**21004 Honors Civics 9B**

**Grade 9**

**1 Trimester**

This course is for highly motivated students who desire to prepare themselves for success in advanced courses in high school such as Advanced Placement U.S. History. Students are expected to engage in intensive coursework and activities that will equip them with the competent reading, writing and analytical skills to be successful in advanced courses. Students are expected to complete coursework on time and to be able to work independently in and out of the classroom. Students will be asked to annotate, analyze and manipulate a variety of high level reading texts. Students will do intensive note taking, essay writing and reading. ***Students are expected to complete approximately 2-4 hours of additional work outside the classroom per week.***

**21005 US History/Geography A**

**Grade 10**

**1 Trimester**

**21006 US History/Geography B**

**Grade 10**

**1 Trimester**

US History A and B will function as workshops as we explore the themes of: The American Dream, The Growth of Democracy and Cultural Contact & Conflict in US History A, while Scientific and Industrial Growth, and Expansion and Influence will be studied in US History B. Information will be taken from throughout US history to create an understanding of the development of these themes. They will plunge in, choose aspects of these themes and topics, look at sets of relevant materials and primary sources, and share their findings. It also means they will be responsible for letting others know what they have found and to be able to compare and contrast their findings. Current events will also be used throughout to show how these themes have evolved into what is happening today.

**21007 Advanced Placement US History A**

**Grade 10**

**1 Trimester**

**21008 Advanced Placement US History B**

**Grade 10**

**1 Trimester**

**21009 Advanced Placement US History C**

**Grade 10**

**1 Trimester**

**This is a yearlong course. Students must sign up for Trimesters A, B and C.**

This is a demanding introduction to US history and culture that assumes a high level of interest and competence. This year long course explores major events in US history from colonization to the present. The pace and rigor is equivalent to a college level survey course as students will analyze primary and secondary documents and discuss, debate and interpret historical-based essays. Although enrollment in AP U.S. History is open to any student in the 10th grade, students need to possess strong reading, writing, and analytical skills for success in this course. Students will be expected to take the AP exam at the end of the course. ***Students are expected to complete approximately 5-8 hours of additional work outside the classroom per week.***

**21010 World History/Geography A**

**Grade 11**

**1 Trimester**

**21011 World History/Geography B**

**Grade 11**

**1 Trimester**

Students will examine the history of the world from its beginning to 1300. An attempt is made to create an understanding of the peoples and cultures of the world and how humans have resolved social, economic, political, geographic and cultural problems. Special emphasis will be placed on the understanding of how geography has played a role in the development of civilizations and the exchange between different cultures. In World History/Geography B students will examine the evolution of the modern world from 1300 to present.

21012 <u>Advanced Placement European History A</u>	Grades 11, 12	1 Trimester
21013 <u>Advanced Placement European History B</u>	Grades 11, 12	1 Trimester
21014 <u>Advanced Placement European History C</u>	Grades 11, 12	1 Trimester

**This is a yearlong course. Students must sign up for Trimesters A, B and C.**

An Advanced Placement course designed to prepare students for the College Board Advanced Placement examination in May. The course covers European history from the late Middle Ages to the present. This is an intense year-long program with extensive independent reading and writing assignments. Although enrollment in AP European History A and B is open to any student in the 11th grade, students need to possess strong reading, writing, and analytical skills for success in this course. Students will be expected to take the AP exam at the end of the course. **Students are expected to complete approximately 5-8 hours of additional work outside the classroom per week.**

21015 <u>Advanced Placement Psychology A</u>	Grade 12	1 Trimester
21016 <u>Advanced Placement Psychology B</u>	Grade 12	1 Trimester
21017 <u>Advanced Placement Psychology C</u>	Grade 12	1 Trimester

**This is a yearlong course. Students must sign up for Trimesters A, B and C.**

This course introduces students to the systematic and scientific study of behavior and mental processes. Students will increase their understanding of psychology, its methods, theory and research. AP psychology is a survey course. Students will gain a broad understanding about the principal approaches to psychology: behavior, biological, cognitive humanistic, and psychodynamic. AP psychology will be taught at the college level and student study habits and participation should reflect this fact. All vocabulary, information and activities will be intended to prepare you for the AP exam. Students need to possess strong reading, writing, and analytical skills for success in this course. Students will be expected to take the AP exam at the end of the course. **Students are expected to complete approximately 4-6 hours of additional work outside the classroom per week.**

21021 <u>Economics</u>	Grades 11, 12	1 Trimester
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The objective of this course is to provide students with a background in economics, which they will use to evaluate social issues and current events. Students will apply economic concepts to practical situations and develop the skills necessary for intelligent decision-making as a consumer, investor, and citizen. The course will also consider the economic roots of crime, poverty and other social problems. Economics is a required course for graduation that can be taken in 11<sup>th</sup> or 12<sup>th</sup> grade.

21022 <u>Advanced Placement Microeconomics A</u>	Grades 11, 12	1 Trimester
21023 <u>Advanced Placement Microeconomics B</u>	Grades 11, 12	1 Trimester

The purpose of an AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students will be expected to take the AP final exam in the spring. **Students are expected to complete approximately 5-8 hours of additional work outside the classroom per week.**

21025 <u>Comparative Religions</u>	Grades 11, 12	1 Trimester
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This course surveys the foundations of religion and the basic elements of the major world religions. After studying the role of religion in human society students will study Hinduism, Buddhism, Judaism, Christianity, and Islam. Other religions will be studied as time permits. This class will emphasize class discussion and real world experiences through guest speakers and 2-3 field trips. The field trips cost roughly \$15 in total.

21026 <u>Cultural Geography</u>	Grades 11, 12	1 Trimester
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This course will focus on the relationship between culture and geography by examining human interaction with the environment and the processes responsible for cultural change. Topics will include patterns, processes, and geographical analysis of world climates, culture, population, urbanization, economic activities, and resources.

**21027 Current Events** **Grades 11, 12** **1 Trimester**  
 This course investigates what is happening in the world today, including significant events, behind-the-scenes causes, who's who, and future trends. This course increases your knowledge of challenging world and national news vocabulary as it prepares you to intelligently discuss current events issues. We will examine and discuss current news clips of world and national news, newspapers, and Internet sources to learn and understand the significance of current events from both a United States and a global perspective.

**21028 Philosophy** **Grades 11, 12** **1 Trimester**  
 Students in this class will study the great thinkers - e.g., Plato, Socrates, etc., and their works. Class materials, readings, writing assignments and discussions will assist students as they hone critical thinking and inquiry skills.

**21029 Politics and Government** **Grades 11, 12** **1 Trimester**  
 The objective of this course is to prepare students for active participation in society. Students will analyze the foundations of our government and will learn basic facts about voting, political parties, and the branches of government.

**21030 Psychology** **Grade 12** **1 Trimester**  
 This course is for those students who are interested in people and how they function. Various theories on human behavior, such as motivation, learning, personality and mental illness, will be presented and discussed.

**21031 Sociology** **Grades 11, 12** **1 Trimester**  
 This course will include cross-cultural studies in the topics of family, marriage, divorce, aging, deviant subculture, race, and ethnicity. Various other societal issues will be covered as well as human relationships and institutions.

**20308 Criminal Justice** **Grades 11, 12** **1 Trimester**  
 This course is an exploration of the system of practices and institutions of governments directed at upholding social control, deterring and mitigating crime, or sanctioning those who violate laws with criminal penalties and rehabilitation efforts.

**21033 SCSU Introduction to Global Geography A: GEOG 111** **Grade 11, 12** **1 Trimester**  
**21034 SCSU Introduction to Global Geography B: GEOG 111** **Grade 11, 12** **1 Trimester**

**CONCURRENT ENROLLMENT COURSE  
 (3 SCSU credits)**

This course is part of the Saint Cloud State University "Senior to Sophomore" concurrent enrollment program and is offered to students in the top 50% of next year's senior class or top 33% of next year's junior class. Global Geography is a class that discusses all major world regions: their physical landforms and climates, population, cultures, economic patterns, political systems and environmental issues. The class places students in a position to better understand global events and local events as influenced by global forces. Students will also learn how the US influences the cultural, political, economic, and environments of different countries and regions of the world and how those countries and regions influence and impact the lives of people living in the US. **This course is not eligible to be taken Pass/No Credit.**

# SPECIAL EDUCATION

All Special Education Classes are designed for students on a current IEP and must have instructor approval.

<b><u>Read 180 A</u></b>	<b>Grades 9, 10, 11</b>	<b>1 Trimester</b>
<b><u>Read 180 B</u></b>	<b>Grades 9, 10, 11</b>	<b>1 Trimester</b>
<b><u>Read 180 C</u></b>	<b>Grades 9, 10, 11</b>	<b>1 Trimester</b>

Read 180 is an intensive reading intervention program designed to meet the needs of students who are reading below grade level and have an IEP. The program directly addresses individual needs through adaptive instructional software, high-interest fiction and nonfiction, and direct instruction in reading and writing skills. Students participating in Read 180 will fulfill their required English credits. Students should meet the entrance criteria to be part of the Read 180 class.

<b><u>Read 180 Flex A</u></b>	<b>Grades 9, 10, 11</b>	<b>1 Trimester</b>
<b><u>Read 180 Flex B</u></b>	<b>Grades 9, 10, 11</b>	<b>1 Trimester</b>
<b><u>Read 180 Flex C</u></b>	<b>Grades 9, 10, 11</b>	<b>1 Trimester</b>

Read 180 Flex provides students with a second year of the Read 180 program. Like Read 180, it is an intensive reading intervention program designed to meet the needs of students who are reading below grade level and have an IEP. Students participating in Read 180 Flex will fulfill their required English credits and should meet the entrance criteria to be part of the Read 180 Flex class. Completion of Read 180 is recommended, but not required.

<b><u>Fundamentals of Reading A</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b><u>Fundamentals of Reading B</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b><u>Fundamentals of Reading C</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>

The students will focus on the phonetics of reading and spelling. The class is based on a systematic, sequential, multi-sensory approach to reading and spelling; focusing on the letter sounds, prefixes and suffixes, syllable types, syllabication rules and vowel pairs. Students will learn how to apply this information to everyday reading tasks, with the ultimate goal of improving comprehension and fluency. The students will receive small group instruction in this discipline area. *\*\*This course is intended for students who have a basic reading skills goal in their IEP.*

<b><u>Fundamentals of Writing A</u></b>	<b>Grades 9</b>	<b>1 Trimester</b>
<b><u>Fundamentals of Writing B</u></b>	<b>Grades 9</b>	<b>1 Trimester</b>
<b><u>Fundamentals of Writing C</u></b>	<b>Grades 9</b>	<b>1 Trimester</b>

This class focuses on how to develop and write a five paragraph essay. Strategies are provided to assist with brainstorming ideas, creating organized paragraphs, and developing clear, concise sentences. In addition, students learn the mechanics of writing; focusing on parts of speech, grammar, and using correct punctuation. *\*\*This course is intended for students who have a written expression goal in their IEP.*

<b><u>Expert 21 A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b><u>Expert 21 B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

This class is a reading program that focuses on the academic areas of reading comprehension and written expression. Students in this class MUST have an IEP with a reading comprehension and/or a written expression goal, but continue to need an IEP goal in the area of reading.

<b><u>Modified Math A</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b><u>Modified Math B</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b><u>Modified Math C</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>

The modified math course is designed for students with a current IEP who struggle with the pace of a traditional math class. Students will explore basic algebraic and Geometric concepts while improving their basic math skills. When completed successfully, this course is expected to prepare the student's for a Year-long Algebra, Geometry, or Algebra II Standards course.

<b><u>Work Force Foundations IA</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b><u>Work Force Foundations IB</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>
<b><u>Work Force Foundations IC</u></b>	<b>Grades 9, 10, 11, 12</b>	<b>1 Trimester</b>

Prerequisite: Completion of Work Experience Assessment & recommendation by Student's IEP Team

These courses will increase student employability skills and develop job awareness. Students will receive coaching instruction in work labs on the Farmington campus to support common social interactions, communication skills, and/or restricted range of interests or repetitive behaviors. Workers will have direct job coaching instruction to support predictable- cause and affect job tasks. Students will develop skills and behaviors to follow safety practices, work place rules, and standard operating procedures for equipment and materials.

<b><u>Work Force Foundations IIA</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b><u>Work Force Foundations IIB</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b><u>Work Force Foundations IIC</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Prerequisite: Completion of Work Experience Assessment & recommendation by Student's IEP Team

These courses will increase student employability skills and develop job awareness. Classroom instruction and activities will promote competencies in self-awareness and advocacy, career awareness, interpersonal relationships, employment readiness, independent living and citizenship. Students will learn decision-making skills, teamwork, appropriate appearance and hygiene, and customer service skills. Student will explore their own interests and identify potential careers and post-secondary options.

<b><u>Work Force Foundations IIIA</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b><u>Work Force Foundations IIIB</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b><u>Work Force Foundations IIIC</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Prerequisite: Completion of Work Experience Assessment & recommendation by Student's IEP team.

This class will increase student employability skills and develop job awareness. Work opportunities in the community will promote self-awareness and advocacy, career awareness, interpersonal relationships, employment readiness, independent living and citizenship in real-life work settings. Job tasks will require decision-making skills, teamwork, appropriate appearance and hygiene, and customer service. Student-workers will develop skills and behaviors to follow safety practices and follow work place rules and standard operating procedures for equipment and materials. Student will participate in non-competitive, job coach supported job experiences during the traditional school day on the Farmington High campus or in the community of Farmington.

<b><u>Hidden Keys for Success A</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b><u>Hidden Keys for Success B</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>
<b><u>Hidden Keys for Success C</u></b>	<b>Grade 9</b>	<b>1 Trimester</b>

For special education students only, most students who take this course are on the autism spectrum. The course's purpose is to help students gain skills to help them transition from middle school to high school. They learn time management skills, what is appropriate use of technology and other digital learning tools. Students will learn the hidden curriculum of the high school setting. They will learn how to be effective communicators, work on their self-advocacy skills, and how to handle their emotions. The course will help the students recognize and use their unique strengths, understand the unspoken rules behind how people relate to each other, and improve their social skills.

<b><u>Ready, Set, Socialize A</u></b>	<b>Grade 10</b>	<b>1 Trimester</b>
<b><u>Ready, Set, Socialize B</u></b>	<b>Grade 10</b>	<b>1 Trimester</b>
<b><u>Ready, Set, Socialize C</u></b>	<b>Grade 10</b>	<b>1 Trimester</b>

For special education students only, most students who take this course are on the autism spectrum. The courses purpose is to help the students learn how the social mind is expected to work in order to effectively relate to others at school, work and in the community. The course also addresses strategies to help students figure out their own emotions and what they could work on to make living in the social world more comfortable.



**Keep Calm and Work On A**

**Grade 11**

**1 Trimester**

**Keep Calm and Work On B**

**Grade 11**

**1 Trimester**

**Keep Calm and Work On C**

**Grade 11**

**1 Trimester**

For special education students only, most students who take this course are on the autism spectrum. The courses purpose is to help students learn work/college/job skills to prepare them for their future outside of high school. Students will have the opportunity to develop job awareness, interpersonal relationships, employment/college readiness, and independent living.

**Express Yourself A**

**Grades 10, 11, 12**

**1 Trimester**

**Express Yourself B**

**Grades 10, 11, 12**

**1 Trimester**

**Express Yourself C**

**Grades 10, 11, 12**

**1 Trimester**

Students will learn to become proficient writers through drafting, planning, revising, editing, and publishing written work. These skills will aid students in the classroom setting, when taking required state assessments, and planning for post secondary tasks. This course is open to special ed students grades 10-12.

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# TECHNOLOGY EDUCATION AND PRE-ENGINEERING

## **21101 Architecture, Residential Drawing and Design**

**Grades 9, 10, 11, 12**

**1 Trimester**

This class will provide basic information for planning various types of dwellings. It will present basic instruction in preparing architectural working drawings using computer aided drafting methods. Students will create plot plans, floor plans, elevations and 3 dimensional drawings to help develop the necessary technical skills to communicate architectural ideas in an understandable, efficient, and accurate manner. Students will create a unique home design using Sketchup and draw an entire set of architectural drawings using the industry standard drafting program Autodesk Revit.

## **21102 Computer Aided Drafting and Design**

**Grades 9, 10, 11, 12**

**1 Trimester**

This is an introductory mechanical drafting course, designed to give students an understanding of the basic concepts and principles utilized in the construction of technical drawings. Students will become familiar with both AutoCAD 2011 and Autodesk Inventor 2011, a 3D design and modeling software. Students will learn basics of geometric construction and 3D modeling. This course is an excellent opportunity for the beginner or advanced computer operator to explore drafting techniques while working with high quality-drafting programs (AutoCAD and Inventor). Students will have the opportunity to create 3D models of common products such as skateboards, bicycles, tools, engines, wheels, and other mechanical objects.

## **21103 Advanced Computer Aided Drafting and Design**

**Grades 9, 10, 11, 12**

**1 Trimester**

### **Prerequisite: Computer Aided Drafting and Design**

Advanced CADD is a course designed to give the student a hands-on, in-depth understanding and knowledge of the basic concepts and principles utilized in the construction of technical drawings. This course will use advanced application of many techniques explored in CADD I. Students will understand section drawings, auxiliary drawings, and pattern development. Students will create working drawings and exploded isometric drawings of machine parts. Students will explore the drawing of cams, gears, and fastening devices. Working drawings will be generated and rendered utilizing Autodesk Inventor 2011, a 3D design and modeling software. Students will also learn basic machining and CNC programming. Using a computer controlled mill and lathe, students can turn their CAD designs into reality. Students that earn a "B" grade or higher will be eligible for an Articulation Certificate which will transfer to many of the area technical colleges as earned trimester credits.

## **20305 Web Design**

**Grades 9, 10, 11, 12**

**1 Trimester**

Web Design is an introduction into the development and creation of websites. Understanding how to create web sites is a career path, a way of promoting a business, and a way of marketing yourself in any career field. You will learn technical skills related to website design and how to apply appropriate and accessible digital tools for research and creation. This is a great class for both beginning and advanced computer students. Just think: you could promote your own business with your newly created web site.

## **20306 Web Animation using Flash**

**Grades 9, 10, 11, 12**

**1 Trimester**

Students will have the opportunity to learn Adobe's industry-standard web animation and multimedia publishing software – Adobe Flash. Students will learn how to get creative with Flash's drawing tools and bring graphics to life; create animation using motion and shape tweens; incorporate images, video, and audio to create a total interactive experience. Units on flash based video games and web site design will also be covered. This is a great class for both beginning and advanced computer students.

## **21104 Desktop Publishing**

**Grades 9, 10, 11, 12**

**1 Trimester**

Desktop Publishing brings together a variety of creative disciplines, all focusing on the design and layout of printed and digital publications. Students will have the opportunity to create and design a variety of exciting projects using Microsoft Publisher and the Adobe CS package. Desktop Publishing is a great class for both beginning and advanced computer and design students. Past projects have included: Event flyers, Color posters, Magazine covers, Magazine page layouts, 3 panel brochures, and Business packages (Business Card, Letterhead, and Envelope).

**21107 Radio Broadcasting & Audio Production****Grades 9, 10, 11, 12****1 Trimester**

Would you like to be a DJ on Farmington's radio station 192.1 "THE ROAR" TIGER RADIO? Would you like to compose, record and produce your own songs in a real audio recording studio? In Radio Broadcasting & Audio Production, students are immersed in a hands-on, technology-rich environment utilizing professional sound boards, Apple and PC computers, a variety of microphones and other sound recording equipment. Students will produce their own radio shows on 192.1 "THE ROAR" along with producing group radio shows just like the shows you hear on KDWB, KS95 or K102. Students will experience everything that happens at a real radio station including writing, recording, producing commercials, and building multi-track recorded audio projects using computer systems. Students will also learn how to record in the audio production studio composing and recording their own songs and music soundtracks using a synthesizer keyboard, drum machine, acoustic guitar or student voices. Students will learn new technological skills in a very hands-on, technological environment. Guest celebrity DJ's are also invited in to share their experiences about their careers in radio broadcasting. Each student will receive CD copies of their recorded shows and projects at the end of the trimester. Note: A \$10.00 student lab fee will be assessed.

**21117 Advanced Radio Broadcasting & Audio Production****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Radio Broadcasting & Audio Production**

This advanced level of radio broadcasting is offered to students who have a strong interest and appreciation for radio broadcasting and audio production. A strong emphasis will be placed on voice-tracking and studio on-air presentation of your live radio shows on 192.1 "THE ROAR" TIGER RADIO. This class will cover more advanced audio mixing and production through Final Cut Pro editing, AVID editing and GarageBand. Advanced students will have 2-4 person team shows along with their own individual radio shows. As a class, we will work together to run the day-to-day operations of 192.1 "THE ROAR" TIGER RADIO. Advanced audio projects will be produced by the students and will have the opportunity to submit their work to radio professionals for review and improvement. The students will also compose musical soundtracks and dubstep mixes using the recording studio. Guest celebrity DJ's are also invited in to share their experiences about their careers in radio broadcasting. Each student announcer will get CD copies of their recorded shows and projects at the end of the trimester. Note: A \$10.00 student lab fee will be assessed.

**21108 Special/Visual Effects for Film & Television****Grades 9, 10, 11, 12****1 Trimester**

Ender's Game...Harry Potter...Star Wars...Avatar...Inception...Titanic....What do all of these movies have in common? All of these movies were produced using special and visual effects! In the Special and Visual Effects for Film & Television class, you will film and make movies in our 180-degree virtual reality green screen studio and edit in Adobe After Effects & AVID. This class is a very hands-on and technology driven environment combining videotaping using chroma-key, creating graphics in Adobe Photoshop, manipulating live animations in the studio, and computer compositing to make your ideas come to life on the movie screen. Students will learn a variety of visual and special effects in our green screen studio and they will control movements for graphics, digital pictures, and video as well as create visual motion graphics for Tiger News and other FHS shows. Our class will explore the early history of movie special effects to the future of advanced special and visual effects being used in Hollywood movies today. *This class meets the requirements for an art credit.* Note: A \$10.00 student fee will be assessed.

**21109 Video Production I****Grades 9, 10, 11, 12****1 Trimester**

Film a music video with your friends! Film and edit a hilarious television commercial. Use our Go-Pro camera to get that shot you've always wanted! Film a football game, volleyball game, or edit a sports highlight film for that star athlete! Post your video to YouTube! In this hands-on technology class, students will film a variety of projects and their very own movies. Students will write engaging video scripts, film with HD digital video cameras, use a variety of lighting and sound techniques, work in the TIGER NEWS television studio, and edit using AVID and Final Cut editing systems. Students will produce several video projects with their video production teams and will have the opportunity to work with broadcasting industry professionals on many productions. Students will learn all of the tools to write, film, edit and produce their own movies. *This class meets the requirements for an art credit.* Each student will receive a DVD copy of all their work at the end of the trimester. Note: A \$10.00 student fee will be assessed.

**21110 Video Production II****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Video Production I**

You can be a part of the ultimate broadcasting television team at Farmington High School! TIGER NEWS is our LIVE television show that airs every Friday to the students and staff of Farmington High School, channel 10 and our YouTube channel. Whether you want to be a sports anchor reporting on the star athletes and their stats, one of the main anchors on the news desk, or a lively field reporter that engages the audience in a fun, interesting way. Would you rather stay behind the scenes as a producer? You can be a studio camera operator, the technical director, lighting director, or floor director; we have a place for you on the Tiger News broadcast team! All students on the broadcast team will work in a live television station atmosphere and will be challenged each day. Students will use prior knowledge and experiences from Video Production I to plan personal engaging news stories, use Sony HD cameras, and edit features to air "LIVE" on TIGER NEWS. Both AVID non-linear editing systems and Apple Final Cut Pro editing systems will be used in Video Production II. Each student will be directly involved with producing the show, and they will be exposed to several hands-on, technical jobs to produce a high quality show for the district website, YouTube, and cable channel 10 television. *This class meets the requirements for an art credit.* Note: A \$10.00 student fee will be assessed.

**21111 Video Production III****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Video Production I and Video Production II**

MOVIE MAKING!!! Stand-by...Roll Camera...Speed...Scene 4...Take 2...ACTION!!! If you've ever wanted to star in a movie as an actor or actress, or work behind the scenes on a movie set, Video Production III "Movie Making" is the class for you! In this high-energy class, students will film, edit and produce a movie that was written by their entire class. The students in this class will work as the actors and actresses as well as work behind the scenes operating cameras, lighting scenes, recording the sound and working together as a crew to film the movie. The knowledge learned from Video Production 1 & 2 will be implemented in this class through a variety of video and film elements. The movie will be filmed with Sony HD digital video cameras, cranes, dollies, and the Steadicam. Advanced film, lighting and sound techniques will also be implemented to give each student a true Hollywood movie experience. Student film editors for the movie will be challenged with storytelling through the use of multi-camera angle shot productions. Students with musical backgrounds will also have the opportunity to compose and record original music for the film using real instruments in the recording studio. Each student will receive a DVD copy of the movie at the end of the trimester. *This class meets the requirements for an art credit.* Note: A \$10.00 student fee will be assessed.

**21120 LIVE Sports and Event Broadcasting****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Video Production I**

Learn about the Team behind the Teams on the field! This class will give you the opportunity to get out of the classroom and into the field. You will learn the following skills: Multi Camera live production set up and engineering, proper camera positioning and framing for multiple sports and events, proper microphone placement to capture sounds of the event, Play-by-play announcing and color analyzing of many different sports, Through a partnership with the Farmington Athletic Department and the Farmington Activities Department, students will film and edit pre-produced opens, in-house game day elements, halftime features, graphics creation and live score updating. Content produced will be digitally archived and sent to ISD #192 Charter cable channel 10. Open to all 9, 10, 11, 12<sup>th</sup> grade students.

**21112 Advanced Live Television Broadcasting****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Video Production I and Video Production II**

This advanced level of television broadcasting is offered to students who have a strong interest and appreciation for television broadcasting and video production. In 2013, the live television show "FOCUS ON THIS" was generated from this class. Advanced Live Television Broadcasting has been developed for students who want to pursue another trimester of working in a live television station atmosphere; either behind the scenes or anchoring behind the desk reporting the news, weather, and sports. Students will brain-storm a new name for their 25-minute show, create a new set design, create a new graphic look, incorporate new and advanced camera angles and features to broadcast news to the students and staff of Farmington High School and also to the community through Channel 10 and YouTube. During the week, students will work in teams to research school and community news, film interviews, produce entertaining and informative features and present the show "live" each Friday. The 180-degree green screen may also be utilized for special features on the show. *This class meets the requirements for an art credit.*

**21113 Woodworking: The Basics****Grades 9, 10, 11, 12****1 Trimester**

Is open lab time your favorite part of any class you are in? Do you enjoy working with your hands? If you said yes, then Woodworking: The Basics is the class for you. We start the class by assuming every student is at level 0 skill wise, so don't worry if you have not worked with power tools before. Projects in this class are smaller, and are taken home once finished. Learn about woodworking and craftsmanship, while having fun at the same time!

Note: A \$20.00 student fee will be assessed.

**21114 Woodworking: Level II****Grades 9, 10, 11, 12****1 Trimester****Prerequisite: Woodworking: The Basics**

If you enjoyed creating projects in The Basics: Woodworking, then join Advanced Woodworking where we take woodworking to the next level. The projects are bigger and require a considerable amount of time and effort as well as some new woodworking techniques, but in the end you will have a high quality piece of furniture you can be proud of. You will also get to build your furniture out of a wood type of your choice. All of these variables will affect the lab fee that is tied into this course.

Note: A Lab Fee will be assessed. Amount will vary depending on what wood type you build with (\$20+).

**21115 Woodworking: Level III****Grades 10, 11, 12****1 Trimester****Prerequisites: Woodworking: The Basics, Level II**

Level 3 Woodworking is the highest level woodworking course Farmington High School has to offer. Everything you have learned from basic and advanced woods will be put to use as you create a project of your choosing! You will be challenged by making a project that is uniquely yours, and many decisions along the way will be yours to make. This is the final step between being instructed, and creating high quality wood projects all on your own!

**20106 DIY: Do it Yourself****Grades 9, 10, 11, 12****1 Trimester**

Some of you may already own a car, but how much do you know about taking care of it? One day many of you will own a house, but how prepared are you to take care of your home or everything that goes into it? This class is designed to help you fix or take care of some of the two largest investments you will ever make in your life. (Your house and cars) Many problems that occur with a vehicle or a home can be fixed by yourself, saving you a lot of money over your lifetime. Knowing the basics will even help you for the bigger maintenance problems that would force you to seek professional assistance. For example: knowing to replace a filter every so often or replacing a faulty light switch can save you hundreds in repairs or even possible fire damage to your home. This class is meant for anyone who plans on owning their own vehicle or home one day. It is also a great class for students interested in careers like: Residential Electrician, Construction, Auto Repair, and many others that involve homes and vehicles. Example Lab Activities: Dry wall maintenance, basic home wiring, replace a flat tire, checking fluid levels, oil change, etc.

**21122 Be You Own Tech Support****Grades 9, 10, 11, 12****1 Trimester**

Have you ever wondered how all the technology and gadgets you use every day actually work? When your computer slows down or stops working properly, would you like to be able to fix it yourself? If so, then "Be Your Own Tech Support" is perfect for you! This class intended for any student, even if you don't know a thing about how computers actually work (that's what this class is for!). You will learn about the basic parts of a computer, what makes Windows®, Apple®, and Chromebooks® different, and fix many of the problems that a typical computer owner would consider "unfixable." After completing this course, you will know a lot more about what your computer actually is, and how to take care of it to keep it running like it did on the first day you bought it.

## SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

20926 Design for Engineering A

Grades 9, 10, 11, 12

1 Trimester

20927 Design for Engineering B

Grades 9, 10, 11, 12

1 Trimester

Design! Innovate! Invent! This course will teach you basic design skills as they relate to product design and development in the field of Engineering. Use the latest in 3D modeling software to solve real-world problems while putting your design and problem solving skills to the test. Take an idea from concept, to sketch, to finished model in a hands-on learning environment.

20928 Engineering Technologies A

Grades 9, 10, 11, 12

1 Trimester

20929 Engineering Technologies B

Grades 9, 10, 11, 12

1 Trimester

Interested in a career in Engineering? This hands-on course will allow you to explore the many disciplines within the field of Engineering. Some of the areas that will be covered include: Civil Engineering, Mechanical Engineering, Electrical Engineering, Aeronautical Engineering, Software Engineering, and Chemical Engineering. Each unit in this course will allow you the opportunity to learn various engineering concepts in an active learning environment.

20930 Applied Engineering A

Grades 10, 11, 12

1 Trimester

20931 Applied Engineering B

Grades 10, 11, 12

1 Trimester

***Prerequisite: At least one of the following courses – Design for Engineering, Engineering Technologies, Introduction to Engineering Design, Principles of Engineering, Civil Engineering and Architecture***

Expand on your knowledge and experience from Design for Engineering and Engineering Technologies by applying your skills to real-life design problems. This course will consist of student teams working together to develop unique solutions to various engineering problems. This course will consist of two phases, the design phase and the production phase. In the design phase, student teams will identify problems, develop possible solutions, and create working models. In the production phase, student teams will bring their ideas to life by manufacturing a finished product. Examples projects might include: developing a product for a customer, creating a useful computer program, automating an assembly process, or developing a set of building plans for a proposed construction site.

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# WORLD LANGUAGES

The World Language Department at Farmington High School offers a five-year comprehensive sequence in three languages – French, German, and Spanish. In each language class students discover the language through the use of songs, videos, games, food, guest speakers and technology. To maximize proficiency and expand post-high school options, it is recommended that students pursue four to five years of continuous language study. Graduates of the four- to five-year sequence have the opportunity to achieve collegiate proficiency on the Minnesota Language Proficiency Assessment which may be accepted for credit and/or placement in upper-level college classes. Travel opportunities are currently offered biannually for each language.

## Level 1

21200 <u>French IA</u>	Grades 9, 10, 11, 12	1 Trimester
21201 <u>French IB</u>	Grades 9, 10, 11, 12	1 Trimester
21210 <u>German IA</u>	Grades 9, 10, 11, 12	1 Trimester
21211 <u>German IB</u>	Grades 9, 10, 11, 12	1 Trimester
21220 <u>Spanish IA</u>	Grades 9, 10, 11, 12	1 Trimester
21221 <u>Spanish IB</u>	Grades 9, 10, 11, 12	1 Trimester

In the first year of language study, students will speak practical, conversational language from the first day of class. Students will communicate orally and in writing about a variety of everyday topics including self, basic needs, leisure activities, alphabet, numbers, time, colors, dates, school and questioning techniques. Students will read and listen to culturally authentic materials to identify perspectives of different cultures and connections among languages. Students will be assessed through tests, quizzes, technology products as well as prepared presentations (dialogues and skits). The class will explore geographic areas where the language is spoken and compare and contrast the significance of cultural celebrations. Students will be encouraged to compare and contrast different aspects of their own culture to that of the language they are studying.

## Level 2

21202 <u>French IIA</u>	Grades 9, 10, 11, 12	1 Trimester
21203 <u>French IIB</u>	Grades 9, 10, 11, 12	1 Trimester
21212 <u>German IIA</u>	Grades 9, 10, 11, 12	1 Trimester
21213 <u>German IIB</u>	Grades 9, 10, 11, 12	1 Trimester
21222 <u>Spanish IIA</u>	Grades 9, 10, 11, 12	1 Trimester
21223 <u>Spanish IIB</u>	Grades 9, 10, 11, 12	1 Trimester

In the second year of language study, students will continue to improve communication skills so they can engage in sustained conversations about familiar topics and respond appropriately orally and in writing. Each language studies a wide variety of topics such as animals, life at home, travel, daily activities, personal care, and meals and food. Students will be able to express themselves in the past tense, present and future. Students will increase their ability to understand native speakers on familiar topics. Students completing the second year of continuous language study will have the skills necessary to successfully navigate a tourist experience in a country that speaks the language. Students will be expected to write letters, paragraphs, and short essays; comprehend authentic readings and make inferences from oral and written texts (conversations, dialogues, narratives, advertisements, songs, rhymes, charts and literature). Students will demonstrate developing speaking skills through the creation and presentation of oral projects (skits, stories, songs, poetry, and dialogues). The class will continue to discuss and explore cultural values, perspectives, and practices of the language and culture.

### Level 3

21204 <u>French IIIA</u>	Grades 10, 11, 12	1 Trimester
21205 <u>French IIIB</u>	Grades 10, 11, 12	1 Trimester
21214 <u>German IIIA</u>	Grades 10, 11, 12	1 Trimester
21215 <u>German IIIB</u>	Grades 10, 11, 12	1 Trimester
21224 <u>Spanish IIIA</u>	Grades 10, 11, 12	1 Trimester
21225 <u>Spanish IIIB</u>	Grades 10, 11, 12	1 Trimester

In the third year of language study, students will communicate using the four basic skills of listening, speaking, reading, and writing with greater detail and ease. Students will engage in sustained and creative conversations about familiar topics. Using a variety of tenses including past, imperfect, present and future, students will be able to recount events and provide greater descriptions as well as ask and respond to more complex questions. Students will be expected to create oral and written products using complex sentences with greater accuracy; interact with the target language for an extended time; and begin to self-edit grammatical mistakes. Third level language learners will continue to appreciate and understand differences of perspective due to cultural differences. Topics of study include but are not limited to travel and vacation, expressing opinions, food, describing past events, cultural stories, cinema and history.

### Level 4

21206 <u>French IVA</u>	Grades 11, 12	1 Trimester
21207 <u>French IVB</u>	Grades 11, 12	1 Trimester
21216 <u>German IVA</u>	Grades 11, 12	1 Trimester
21217 <u>German IVB</u>	Grades 11, 12	1 Trimester
21226 <u>Spanish IVA</u>	Grades 11, 12	1 Trimester
21227 <u>Spanish IVB</u>	Grades 11, 12	1 Trimester

In the fourth year of language study, students will create and communicate complex messages using speaking, writing, listening, and reading with greater complexity and ease. Students will be expected to understand longer written excerpts, announcements and messages on new and familiar topics, give and follow complex written and oral directions, offer and ask opinions on a variety of topics, and engage in sustained and creative conversations. Students will debate varying points of view; write letters, paragraphs, journals and essays; and read, discuss and analyze authentic works of literature, films, music, and other media. All level four students will take the Minnesota Language Proficiency Assessment to demonstrate proficiency levels in reading and listening. Students will explore culture through such topics of study as history, future plans, music, literature, theater, arts and cinema.

### Level 5

21208 <u>French VA</u>	Grade 12	1 Trimester
21209 <u>French VB</u>	Grade 12	1 Trimester
21218 <u>German VA</u>	Grade 12	1 Trimester
21219 <u>German VB</u>	Grade 12	1 Trimester
21228 <u>Spanish VA</u>	Grade 12	1 Trimester
21229 <u>Spanish VB</u>	Grade 12	1 Trimester

The fifth year of continuous language study will prepare students to meet collegiate level proficiency standards; spark passion for and curiosity about the language and culture; maintain high levels of language use in the classroom; and engage students creatively in the learning process. Students will extend fundamental grammar skills to new contexts and increase proficiency in advanced grammatical contexts. Students will be exposed to a variety of writers, poets, filmmakers, and playwrights from the language and countries of study. Students will be expected to apply acquired language skills to real-world situations. All level five students will take the Minnesota Language Proficiency Assessment to demonstrate improved proficiency levels in reading and listening. Topics of study are specific to each language and determined by students' needs and interests.

# ISD 917 DAKOTA COUNTY SECONDARY TECHNICAL CENTER

## Course Offerings 2014-2015

Dakota County Secondary Technical Center provides technical education for high school students in grades 11 & 12 at Dakota County Technical College-Rosemount. Courses are yearlong and run in 2 hour shifts. Bussing is available to all students who sign up for courses. In addition to registering for the course via the regular procedure, a brief DSCTC form is also required in order to complete registration. (Most programs offer the opportunity to earn articulated college credits)

<b>*30007 <u>Career Explorations Program A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>*30008 <u>Career Explorations Program B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>*30009 <u>Career Explorations Program C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Students will gain a better understanding of interest, abilities, personality traits, and the world of work. Students will also develop a transition plan which includes future school and job choices.

<b>30013 <u>Computer Service &amp; CISCO Networking A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30014 <u>Computer Service &amp; CISCO Networking B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30015 <u>Computer Service &amp; CISCO Networking C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Students will understand basic computer hardware, use common network management tools and learn computer setup and configuration. Students will also learn networking components, understand basic software, learn router setup and configuration, install Ethernet LANS and understand networking topology and architecture.

<b>30019 <u>Construction Trades A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30020 <u>Construction Trades B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30021 <u>Construction Trades C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Students will construct a 3-bedroom house or stand-alone rental cabins to be used in the development of the Whitetail Woods Regional Park located in Dakota County. Students will learn about construction materials, tools and equipment, work with CADD, read blueprints and analyze, estimate, and plan residential buildings.

<b>*30022 <u>Food Industry Careers A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>*30023 <u>Food Industry Careers B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>*30024 <u>Food Industry Careers C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Students will develop an understanding of the food service industry, prepare food for college cafeteria and special catering requests, and understand proper equipment usage and storage.

<b>30025 <u>Fundamental Chef Training A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30026 <u>Fundamental Chef Training B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30027 <u>Fundamental Chef Training C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Students will learn from the only American Culinary Federation (ACFEF) approved high school program in Minnesota about operating a commercial kitchen: plan menus, prepare food, order supplies, and ensure positive customer relations.

<b>30028 <u>Graphic Design Technology A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30029 <u>Graphic Design Technology B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30030 <u>Graphic Design Technology C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Learn electronic illustration in Adobe Illustrator, electronic imaging in Adobe Photoshop, pre-flight projects for printing, pre-flight layouts, and electronic images to e-mail. Students will also learn: Photography, Print Production, Website Development, & Digital Illustrations/Animation. Students have access and will gain hands-on knowledge of operating a full-scale print shop. Introduction to 3-D printing will also be explored.

<b>30031 <u>Medical Careers A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30032 <u>Medical Careers B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30033 <u>Medical Careers C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Learn first aid & CPR, medical terminology, basic anatomy and physiology, as well as basic patient care techniques. State approved 97 hour Nursing Assistant/Home Health Aide certification course. A 20 hour clinical rotation off site and non-school hours.

<b>30037 <u>Total Auto Care IA</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30038 <u>Total Auto Care IB</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30039 <u>Total Auto Care IC</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Learn basic vehicle maintenance and service including computer control diagnostics, basic repairs, and tune-up. Students will also learn basic auto body repair procedures, collision damage replacement, painting, applying a finishing body filler and car restoration. This program combines Vehicle Service, Auto Body, and Welding skills.

<b>30034 <u>Heavy Duty Truck Technology A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30035 <u>Heavy Duty Truck Technology B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30036 <u>Heavy Duty Truck Technology C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Overhaul various parts of a diesel engine, perform vehicle safety inspections, perform heavy truck engine diagnostics, and perform preventative maintenance procedures. Students will have an opportunity to drive a diesel-powered semi and if they pass the test they will have the opportunity to drive with a trailer.

<b>30040 <u>Video Game Animation and Design A</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30041 <u>Video Game Animation and Design B</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>
<b>30042 <u>Video Game Animation and Design C</u></b>	<b>Grades 11, 12</b>	<b>1 Trimester</b>

Students will learn the video game design process and learn and practice 2D and 3D game design through a variety of game design programs and animation environments. Introduction to 3-D printing will also be explored.

\* Must have current IEP

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