

# Hutchinson High School

Course Catalog  
2020-21



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# General Information

## Welcome to Hutchinson High School!

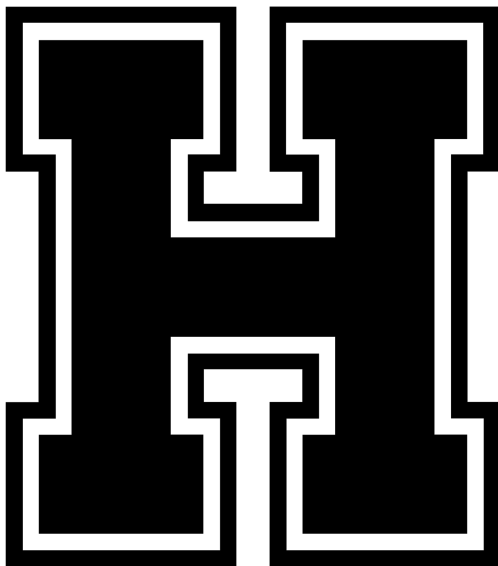
Welcome to Hutchinson High School (HHS), home of the TigerPath Academies - a student-centered curriculum based on rigorous and relevant content designed to engage students on a daily basis while embedding the principles and philosophies of career-readiness.

The TigerPath approach to education merges national- and state-based curriculum standards with the opportunities to explore career fields, career clusters, and career pathways. In doing so and upon graduation, students at HHS will have successfully addressed curriculum standards through engaging and rigorous opportunities while also identifying a pathway towards their future education and/or career endeavors. TigerPath has been locally and regionally recognized for education innovation and excellence, and HHS regularly hosts school and community leaders from our state and beyond interested in adopting the TigerPath concept for their own purposes.

To assist students in this process, the HHS school counseling team will work with all students to craft individual and unique 4-year plans that address each student's passions, interests, and academic strengths. These 4-year plans are housed on Naviance and serve as a student's touchstone during their HHS career.

Finally, though perhaps most importantly, HHS provides a school environment for all students to feel safe and supported, respected and valued, and to chase their dreams. In short, HHS is a special place, and we are excited to have you join us!

Sincerely,  
Robert Danneker  
Hutchinson High School Principal



# TIGERPATH

## ACADEMIES

*Discovering Talent, Developing Skills, Building Careers*

## What is TigerPath?

TigerPath began in 2014 with the realization that the outcomes being achieved by America's educational system didn't always prepare students in the best way for life after school.

Specifically:

- ★ Over the past several decades, a "college-for-all" theme has taken hold in education, even if college may not be the best fit for a particular student
- ★ In many ways education became "one-size-fits-all," but not all students are alike; each has different abilities, interests, and gifts
- ★ At least 44% of high school graduates go on to pursue a bachelor's degree, but only 33% of all jobs in America and 17% in Minnesota actually require that level of education
- ★ Over 40% of students going to a university won't finish their degree
- ★ The cost of attending college is skyrocketing; a bachelor's degree from the University of Minnesota will cost more than \$55,000 in tuition and fees; that same degree from a state school will cost more than \$30,000; add to both the cost of room and board
- ★ Average student debt was more than \$38,000 as of 2018
- ★ By 2017, over 44% of recent college graduates were "underemployed," meaning they have a job that does not require the degree they hold
- ★ At the same time, thousands of high-paying, high-demand skilled jobs are going unfilled

Change is needed.

The solution developed at Hutchinson High School is called TigerPath -- a community-wide effort to provide better educational outcomes for our youth.

Partners with Hutchinson Public Schools on this initiative include:

- ★ Hutchinson Economic Development Authority
- ★ Hutchinson Chamber of Commerce
- ★ Southwest Initiative Foundation
- ★ Ridgewater College
- ★ Dozens of local and regional private businesses

For more information on TigerPath, please see:  
[www.HutchTigerPath.com](http://www.HutchTigerPath.com)

## Using the HHS Registration Handbook

Within the HHS Registration Handbook, courses are listed by academic department, and each department is listed in alphabetical order. Critical information is listed for each course, and a course description is also provided. Courses are color-coded by both TigerPath affiliation and by required/elective status. The color-code is as follows:

### TigerPaths

<b>B</b>	Business TigerPath
<b>HS</b>	Human Services TigerPath
<b>SH</b>	SciHi TigerPath
<b>S</b>	STREAM TigerPath
<b>T</b>	Courses with skills applicable to all TigerPaths

### Course Type

<b>E</b>	Elective Course
<b>R</b>	Required Course

## Prerequisites

Some courses require prior completion of other, related courses prior to enrollment. Please see individual course descriptions for complete information.

## Course Add/Drop/Change Protocol

All students must have a complete schedule of five (5) academic blocks and one (1) advisory block at all times. Students may amend their assigned course schedules in accordance with the parameters outlined in this section.

### First Three (3) Days of a Trimester:

Students may add/drop/change courses at will. Please see "Schedule Changes" below for add/drop/change approved criteria.

### Day Four (4) through Day Ten (10) of a Trimester:

Students may drop a course. A "W" (Withdrew) will be noted on the student's transcript. If approved, the student may replace the dropped course with a different course. If the student cannot find a teacher-approved course to add, the student's counselor will work with the student to complete the student's schedule.

### Day Eleven (11) and Beyond of a Trimester:

If approved, students may drop a course. An "F" (Fail) will be noted on the student's transcript. The student's counselor will work with the student to complete the student's schedule.

## Schedule Changes

The following will be the only justifiable reasons accepted for schedule changes. In addition, schedule changes will only be approved if the destination course has seats available.

- To address a computer error
- To address a deficiency in required credits for graduation
- To address a course size imbalance
- To address additional credits a student has earned through credit recovery
- To address schedule conflicts
- To address student placement in an intervention course or program

Schedule changes WILL NOT occur due to concerns including, but not limited to:

- Preference for a different teacher
- Preference for a different class block
- Preference to be in a course with friends
- Change of mind regarding completing a course
- Preference for a lunch period

## Weighted Grades

Advanced Placement (AP) and College In the School (CIS) courses will use weighted scales to differentiate from regular courses. AP courses (+1.0) and CIS courses (+0.5) shall be weighted if the student earns a C or higher. Other courses considered for weighting must meet similar standards of academic rigor and have a comparable AP or CIS end-of-course examination. Weighted courses shall reflect collegiate expectations. Weighted courses shall reflect higher rigor in reading/writing/understanding, as well as significant increases in effort.

## Incompletes

All incomplete trimester grades ("I") must be made up within ten (10) school days of the trimester end date at which point a failing grade will be entered. In unique and rare circumstances, such as cases of emergency, illness or other special reasons, more time may be provided by HHS Administration.

## Report Cards

Report cards can be accessed on Infinite Campus via the student and/or parent portal.

## Required Course Planner

The following table demonstrates the required courses and credits at each of the four grade levels at HHS. While unique circumstances are always a possibility, this planner will reflect the experiences of the vast majority of HHS students.

	Grade / Course / Credits
<b>Career Education</b> 0.5 credit	<b>Grade 9: 0.5 credit</b> 0.5 credit of Careers 9 course (choice by TigerPath)
<b>English</b> 4.0 credits	<b>Grade 9: 1.0 credit</b> English 9: Composition (0.5) and English 9: Literature (0.5)  <b>Grade 10: 1.0 credit</b> English 10: Composition (0.5) and English 10: Literature (0.5)  <b>Grades 11 &amp; 12: 2.0 credits</b> 0.5 credit of Communication 0.5 credit of Composition 0.5 credit of Literature 0.5 credit of English electives
<b>Fine Arts</b> 1.0 credit	<b>Grades 9-12: 1.0 credit</b> 1.0 credit of music, visual/media arts, and/or theater <i>Note: Students not applying to institutions of higher education may substitute Welding I and/or Welding II</i>
<b>Health</b> 0.5 credit	<b>Grade 10: 0.5 credit</b> 0.5 credit of Health 10
<b>Math</b> 3.0 credits	<b>Grades 9-12: 3.0 credits beyond Algebra I</b> 1.0 credit of Geometry A/B 1.0 credit of Advanced Algebra A/B 1.0 credit of Math electives
<b>Physical Education</b> 1.0 credit	<b>Grades 9-12: 1.0 credit</b> 0.5 credit of fitness requirement 0.5 credit of Physical Education elective
<b>Science</b> 3.0 credits	<b>Grade 9: 1.0 credit</b> Physical Science: Chemistry (0.5), and Physical Science: Engineering (0.5), or Physical Science: Physics (0.5)  <b>Grade 10: 1.0-1.5 credits</b> AP Biology A/B (1.5) or Biology Kingdoms (0.5) and Cell Biology (0.5)  <b>Grades 11 &amp; 12: 1.0-1.5 credits</b> AP Physics A/B (1.5), or Chemistry A/B (1.0), or Physics A/B (1.0), or Food Chemistry (0.5), or Natural Chemistry (0.5), and Natural Physics (0.5)

<b>Social Studies</b> 3.5 credits	<b>Grade 9: 0.5 credit or 2.0 credits</b> U.S. History 9 (0.5), or AP U.S. History A/B/C (2.0)  <b>Grade 10: 1.0 credit or 2.0 credits</b> U.S. History 10 A/B (1.0), or AP U.S. History A/B/C (2.0)  <b>Grade 11: 1.0-1.5 credits</b> American Government (0.5), or AP American Government A (0.75), or AP U.S. History C (0.5) and Economics (0.5), or AP American Government B (0.75)  <b>Grade 12: 1.0-1.5 credits</b> Geography (0.5), or AP Human Geography A (0.75) and World History, or AP Human Geography B, or CIS Western Civilizations II
<b>Ramp-Up to Readiness</b> 1.0 credit	<b>Grades 9-12: 1.0 credit</b> 0.25 credit per year

## Graduation Requirements

Students are required to complete high school graduation requirements as adopted by the State of Minnesota and the Hutchinson Public Schools Board of Education.

### Each trimester-long course:

0.5 credits earned

0.75 credits earned for AP or CIS courses

**Total Credits Required for High School Graduation: 28**

### Subject-Matter Credits Required for High School Graduation:

4 credits of English

3.5 credits of Social Studies

3 credits of Mathematics

3 credits of Science

1 credit of Fine Arts

1 credit of Ramp-Up to Readiness / Advisory (0.25 per year)

1 credit of Physical Education

0.5 credit of Health

0.5 credit of Careers 9

10.5 credits of Electives

### Credits Required to Participate in Commencement:

All students having earned 27 credits or more at the time of grade reporting prior to Commencement will be eligible to participate in the ceremony. Students having only earned 27 or 27.5 credits prior to Commencement will have a documented plan on file with their counselor regarding their plans to complete their remaining credits.

## Academic Enrichment Opportunities

### Advanced Placement (AP)

The College Board's Advanced Placement (AP) courses are college-level courses in a wide variety of subjects that students can complete while enrolled at HHS. These courses offer challenging coursework and a taste of what college courses are like. AP courses allow students to earn HHS credit along with the option of earning college credit (if the student achieves a qualifying score on subject-specific AP exams). AP designation is listed within HHS course titles and descriptions. For more information on the AP program, please see: <https://apstudent.collegeboard.org/home>

#### **14 Advanced Placement courses available at HHS include:**

AP American Government  
AP Biology  
AP Calculus A/B  
AP Computer Science A: Java  
AP Environmental Science  
AP Human Geography  
AP Literature and Composition  
AP Mobile Computer Science Principles  
AP Music Theory  
AP Physics  
AP Psychology  
AP Statistics  
AP Studio Art: 2-D Design  
AP U.S. History

### Articulated Credits

Students who complete articulated credit courses may be eligible for credit at Minnesota technical and community colleges. Articulated credit designation is listed within HHS course descriptions.

#### **Articulated credits are available at HHS in the following courses:**

Accounting II  
Child Development III  
Desktop Publishing  
Drafting II: CAAD  
Electricity and Electronics  
Family Matters  
Keyboarding & Word Basics  
Machine Tool Operations I  
Machine Tool Operations II  
Machine Tool Operations III  
Robotics  
Teen Issues

### College In the Schools (CIS)

College in the Schools (CIS) is an educational program for high school students run by Minnesota universities. CIS allows students to take college-level courses at HHS and, as a result, earn college and high school credit at the same time, free of cost. The classes are taught by HHS teachers. The curriculum is controlled by the participating partner university.

#### **13 CIS courses available at HHS include:**

CIS Animal Science A (University of Minnesota)  
CIS College Algebra A/B (SMSU)  
CIS College Composition I (Ridgewater)  
CIS College Composition II (Ridgewater)  
CIS College German III A/B (SCSU)  
CIS College German IV A/B (SCSU)  
CIS College Spanish IV A/B (SMSU)  
CIS Introduction to College Math (Ridgewater)  
CIS Introduction to Education (SMSU)  
CIS Introduction to German Culture (SCSU)  
CIS Mobile Computer Science Principles A/B (SMSU)  
CIS Sociology (SCSU)  
CIS Western Civilization II (Ridgewater)

### Post-Secondary Enrollment Options (PSEO)

Post-Secondary Enrollment Options (PSEO) allow students in Grades 11 and 12 to take college courses for high school credit full- or part-time at a community or technical college, liberal arts college or university, or non-profit degree-granting trade school. Students in Grade 10 may enroll in one (1) CTE course via PSEO. PSEO students are taught by a college instructor on the college or university campus. PSEO students provide their own transportation.

Students interested in PSEO should consult their counselor to discuss registration, requirements, and appropriate fit. To assist the district in planning, students must inform HHS by May 30 of each year of the student's intent to enroll in PSEO courses during the following school year. Students are bound by notifying or not notifying the district by May 30.

## NCAA Clearinghouse

Any student-athlete planning to participate in college athletics must register with the NCAA Clearinghouse. Students must have their ACT scores sent directly to the clearinghouse by entering code 9999 on their ACT registration. In addition, any student who wants to compete in Division I or II athletics must have taken NCAA-approved curriculum in high school. Please make sure you meet the requirements! Go to [www.eligibilitycenter.org](http://www.eligibilitycenter.org) to register and to see a list of approved courses for Hutchinson High School.

# HUTCHTIGERS



# Agriculture

AgriScience classes teach lifetime skills. Some students may go on to pursue careers in these areas, but most students will draw upon these skills all their lives. Students taking an AgriScience class may also become involved in FFA. Courses are designed for students in Grades 9 through 12 to explore the hundreds of opportunities and careers in the AgriScience, horticulture, animal science, and natural resources through hands-on experiences. Students will also gain valuable career readiness and employability skills through leadership and career development opportunities.

## Courses Offered:

Agribusiness (odd years only)  
Agriculture Leadership Seminar  
Animal Science  
Biotechnology  
Careers 9: AgriScience  
CIS Animal Science A (University of Minnesota)  
Companion Animals  
Floriculture  
Horticulture  
International Agriculture  
Landscape Design  
STREAM Internship  
Veterinary Science  
Wildlife / Natural Resources

## AGR Agribusiness

011208

<b>S</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			
Frequency: Course offered odd years only			

Why is there world hunger or why is energy so expensive? How does ethanol, or additional alternative uses for commodities, affect agriculture and food prices? The basics of supply, demand, price determination, world trade, public policy, and the economics of food safety will all be covered in this course. The economics of day-to-day living, saving and investing for your future, and the use of the stock market will also be included in this course. These concepts will be taught using hands-on learning activities, market simulations, and interactive group scenarios.

## AGR Agriculture Leadership Seminar

011218

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Agriculture Leadership Seminar is a one trimester course offered to students in grade 10-12. The course is designed to allow students to study and develop basic leadership skills and qualities. Emphasis will be placed on public speaking, extemporaneous speaking, job interview training, salesmanship, parliamentary procedure, record-keeping, FFA activities and contest areas, and leadership responsibility.

## AGR Animal Science

011228

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Are you interested in the animal industry? Nutrition, animal care, ethical treatment of animals, genetics, and selection techniques are themes in the class. Students will study the animal body systems, selection, care and management of sheep, beef, swine, poultry, horses, dairy cattle, and meats and dairy products. If you raise animals or are looking into an animal-related occupation, this class will provide you with basic knowledge, and the opportunity to work hands-on with a class animal project.

## AGR Biotechnology

011238

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course is on the cutting edge of AgriScience technology as students learn about one of the fastest growing fields in the world of agriculture. Topics include genetics, genetic engineering, cloning, hydroponics, food preservation, and renewable energy in the agricultural areas of food, animals, plants, and natural resources.

## AGR Careers: AgriScience

011108

S	R	Meets Requirement: Careers 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

This Careers course is an activity-based course that acquaints students with different career opportunities in the agriculture industry.. Students will investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, public speaking, and discovering one's potential will be covered as well. This course also includes exploration and basic introduction to the many areas of our nation's largest industry: agriculture. No matter where you live, agriculture touches you every day! Explore units on leadership development, wildlife management, food science, and plant and animal science. Numerous hands-on experiences and activities will enhance learning in all areas.

## AGR CIS Animal Science A

014308

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.75	
Prerequisite: Must meet U of M articulation standards			
College Credit Available			

Are you interested in a career in the animal industry? Fundamental concepts of animal breeding, physiology, nutrition, and management as they apply to the production of beef, dairy, horses, poultry, sheep, swine, and other livestock. Students will be involved with the newest technology in the animal industry. By completing this course, students will be able to earn college credit at the University of Minnesota, which is also transferable to most universities.

## AGR Companion Animals

011118

S	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course is designed for students who enjoy working with small domestic animals and pets. Students will learn about animal anatomy, systems, and functions related to small and exotic animals. Small animal species such as dogs, cats, pocket pets, birds, reptiles, and rabbits will be studied to learn about their behavior, care required, nutrition and species characteristics.

## AGR Floriculture

011228

S	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			
Fee: \$30			

This course is project based and will include the creation of floral arrangements, corsages, boutineers, and more! Skills will be developed related to flower shops, greenhouses, garden centers and retail stores where horticultural products are sold. Skills will be mastered related to floral design, and floral and foliage plant production. We will also tour some of the largest wholesale floral growing and arranging companies in Minnesota.

## AGR Horticulture

011248

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

If you enjoy hands-on learning and working with plants, soil and flowers, this is the course for you! While spending many days in the greenhouse, care of plants, gardening and greenhouse management will be elements of this course. Students will have opportunities to grow plants and gain essential skills and knowledge for a career in the horticultural industry.



## AGR International Agriculture

011138

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		

Agriculture is connected around the world. This course will discuss international food, careers in agriculture, agriculture around the world, food safety, and other agricultural issues.

## AGR Landscape Design

011258

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: None		

Learn how to plan, design, and install landscaping for your home! This hands-on class will give students a chance to learn landscape design principles through drawing and designing a landscape and then convert the drawing into an outside landscaping project. Students will learn the principles of landscape design and convert these principles into landscape designs using drawing tools. Students will also have a chance to convert their drawings into an outside landscaping project.

## AGR STREAM Internship

011328

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: None		

This course is designed for the student to receive hands-on experience on the job in an AgriScience situation. The student must have an agriculture-related job approved by the instructor. Each student will provide their own transportation to their job site. The majority of this course will take place outside of the classroom on the job. Students will be expected to complete a work agreement with the employer, keep employment records, design a resume and cover letter, and go through a job interview situation.

## AGR Veterinary Science

011338

S	SH	E	Meets Requirement: Elective	
Grades: 11, 12			Credits: 0.5	
Prerequisite: None				

For students interested in a course preparing for the Veterinary or Animal Science fields, this course will cover the basic information needed. Veterinary terminology, anatomy and physiology, clinical exams, nutrition, diseases, and safety will be discussed. Species covered in course content include: dogs; cats; cattle; pigs; sheep; poultry; and more.

## AGR Wildlife / Natural Resources

011268

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: None		
Fee: Dependent on student-identified project costs		

Students interested in hunting, fishing, wildlife management and creating a fishing rod - this is the class for you! Students will learn about Minnesota wildlife (deer, moose, wolves, bears, game birds and more) and natural resources. Students will learn about animal habitat, tracks, populations and more. The cost of the selected fishing rod will be a course fee requirement.

# Art

## Courses Offered:

Art I  
Careers 9: Design 3-D  
Art II: Ceramics  
Art II: Film  
Art II: Paint/Draw  
Art II: Photo/Graphic  
Art III: Ceramics  
Art III: Film  
Art III: Paint/Draw  
Art III: Photo/Graphic  
Art IV: Studio A/B  
AP Studio Art: 2-D Design A/B

## FAA Art I

021118

<b>S</b>	<b>E</b>	Meets Requirement: Art
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		

Think you are not an artist? You will be surprised! Learn the tricks of the trade. You can finish this class with artworks that will make you proud. It is a prerequisite for all other art electives.

## FAA Careers 9: Design 3-D

021108

<b>S</b>	<b>R</b>	Meets Requirement: Careers 9
Grades: 9		Credits: 0.5
Prerequisites: None		

This course is an activity-based course that acquaints students with different career opportunities based in visual design. While using the design process to create unique objects, students will investigate careers that parallel personal interests, evaluate career decisions, and establish a plan to acquire the skills needed to succeed in the world of work. Careers from aeronautical engineering to web designing will be explored. Personal growth skills such as decision making, goal setting, and discovering personal potential will be addressed, as well.

## FAA Art II: Ceramics

022208

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisites: Art I		
Fee: \$15		

Remember playing in the mud? Explore the world of earth, water, and fire to create functional, decorative and expressive works of art. Develop in-depth skills in a variety of hand-building methods and decorative techniques. Try your hand at wheel-throwing pottery bowls or cups.

## FAA Art II: Film

022218

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Art I			
Fee: Student must provide a 32-gigabyte SD card of their choice			

Lights, Camera, Action! Look at the world through the eye of the lens. Learn the basics of making movies like the pros.

## FAA Art II: Paint/Draw

022228

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Art I			
Fee: \$10			

What's your style? Tell a story with your art. Expand your basic skill set and explore art styles and artistic influences while creating with a variety of 2D materials.

## FAA Art II: Photo/Graphic

022238

<b>B</b>	<b>S</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12			Credits: 0.5	
Prerequisite: Art I				
Fee: \$10				

Get the message out! Work as a graphic designer using photography and design as forms of communication. Develop photography skills and create graphic design projects with Adobe Photoshop.

## FAA Art III: Ceramics

022308

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisites: Art I; Art II: Ceramics			
Fee: \$15			

Continue the exploration of clay as a 3D medium. Develop independent theme and projects for the course, including wheel-throwing instruction.

## FAA Art III: Film

022318

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisites: Art I; Art II: Film			
Fee: Student must provide a 32-gigabyte SD card of their choice			

Art II: Film got you started, now here's your chance to green screen, layer film, and edit sound as an independent filmmaker. An internship in film-making production is available through application.

## FAA Art III: Paint/Draw

022338

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisites: Art I; Art II: Paint/Draw			
Fee: \$15			

This course explores the world of dry and wet pigments to create thematic and expressive works of art. Choose your media, improve your skills, make a statement.

## FAA Art III: Photo/Graphic

022348

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisites: Art I; Art II: Photo/Graphic			

Want to get into more professional graphic design skills? This course builds on the basics from Photography/Graphic Arts I and introduces Adobe Illustrator software techniques to add to your tool box.

## FAA Art IV: Studio A/B

023351 / 023352

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5 / 0.5	
Prerequisites: Art I; Art II: Paint/Draw and Art III: Pain/Draw, or Art II: Photo/Graphics and Art III: Photo/Graphics			
Fee: \$15			

A class for the advanced art student. Bring your technical skills and understanding to a new level. Create high quality artworks you will be proud to display. Find your personal voice in a teacher mentored studio setting.

# FAA AP Studio Art: 2-D Design A/B

023361 / 023362

S	E	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.75 / 0.75
Prerequisites: Art I; Art II: Paint/Draw and Art III: Pain/Draw, or Art II: Photo/Graphics and Art III: Photo/Graphics		
College Credit Available		
Fee: \$15/trimester; Cost of portfolio submissions		




The AP Studio Art course is designed for the committed art student who has the time and dedication needed to complete a rigorous study in 2D design. AP Studio Art: 2-D Design A students will focus on creating a selection of works to meet the Breadth section of the National AP Portfolios. These works will display the range of the student’s skills in a variety of media. AP Studio Art: 2-D Design B students will develop a concentration theme and create twelve (12) pieces exploring that theme for the Concentration portion of the same portfolio. The portfolio including both sections may be submitted to the College Board National Review. This review provides students the potential for college credit based on performance rating. This course requires summer prep work. A pre-summer conference to establish summer art goals is required.

# Business

The National Standards for Business Education are based on the conviction that business education competencies are essential for all students.

- Because numerous career pathways list business classes as education and training requirements
- Because all students will participate in the economic system, all students need to be literate in business and economics
- Because all students will encounter a business environment that is characterized by diversity— both domestic and international—all students need to practice the interpersonal, teamwork, and leadership skills that will help them function successfully in that environment
- Because all students will use technology as a tool for managing information, all students need to hone the lifelong learning skills that foster flexible career paths and confidence in adapting to a workplace that demands constant retooling

## Courses Offered:

Accounting I  
Accounting II  
Accounting III (even years only)  
Business Law I  
Business Law II (odd years only)  
Careers 9: Introduction to Careers  
Computer Applications I  
Computer Applications II  
Desktop Publishing  
Entrepreneurship  
Keyboarding & Word Basics  
Occupational Mentorship  
Personal Finance  
 Sports Officiating A  
 Sports Officiating B  
 Sports Officiating C  
Sports & Entertainment Marketing  
TigerMFG: Operations 11 A/B/C  
TigerMFG: Operations 12 A/B/C  
Web Design

## BUS Accounting I

031208

<b>B</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: None		

Learn the language of Business! Students will learn how to calculate revenue, expenses and net income for a service business organized as a sole proprietorship. The students complete daily transactions and end of month reports to learn if their investment in their own business is growing or not. Students will then apply those procedures to other similar businesses for practice. Students will also learn the basics of ten-key operation. Other introductory financial concepts will be applied.

## BUS Accounting II

035218

<b>B</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: Accounting I		
College Credit Available		

If you are planning on going into business, accounting is for you! Students will learn the financial reporting for a merchandising business set up as a partnership. Transactions and problems will be more complex than in the previous course. An increased amount of computer work will be completed. Students will work with specialized journals and ledgers, and process payroll problems. The final project will be a simulated business. Students planning to compete in accounting for BPA should plan to take Accounting I & II. Students may receive technical and community college credit through articulation agreement.

## BUS Accounting III

032208

B	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Accounting I; Accounting II			
Frequency: Course offered even years only			

Do you want to be ahead of your business classmates in college?

In Accounting III, students will learn advanced corporation accounting principles for a merchandise business. With a partner, you will complete a 4-week simulation used to present new transactions and financial reports. Asset management techniques, including depreciation, distribution of income, and component percentages will be utilized. Using financials to make managerial decisions will help students wanting to get to the next level.

## BUS Business Law I

031228

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Students will develop a background in our legal system involving crimes, torts, and courts. Students will study the six elements of a contract necessary for personal and business affairs. Students will experience live court cases at the Hennepin County courthouse in Minneapolis. Outside speakers will address the group in a variety of media to help students understand how we study relates to the real world. Case studies are also used to understand certain points of law. A mock trial will be completed to help students understand the parties involved, and the process.

## BUS Business Law II

032238

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Business Law I			
Frequency: Course offered odd years only			

Students will investigate the applications of law affecting employment, personal and real property, commercial paper, insurance, and business organizations. Outside speakers will address the class and make real-life connections to the content of this course. Students will experience live court cases and a jail tour at the McLeod County courthouse.

## BUS Careers 9: Introduction to Careers

031108

<b>B</b>	<b>R</b>	Meets Requirement: Careers 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Introduction to Careers is an activity-based course that acquaints students with different career opportunities. Students will investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, and discovering one's potential will be covered as well.

## BUS Computer Applications I

031248

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course is designed to provide students the skills to succeed in today's business offices. Students will gain proficiency in using the Microsoft Office suite. In addition, students will be learning valuable, lifelong skills on how to integrate these office applications for business, educational, and personal use.

## BUS Computer Applications II

032308

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Computer Applications I			

This course is designed to provide students the skills to succeed in today's business offices. Students will learn advanced skills using the Microsoft Office suite. In addition, students will be learning valuable, lifelong skills on how to integrate these office applications for business, educational, and personal use through real-life office applications.



## BUS Desktop Publishing

031268

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			
College Credit Available			

This course is designed for students who simply enjoy using the computer to create. Students who have an interest in advertising or journalism, plan a career in graphics or business, or plan to join a newspaper staff will find this experience helpful. This course uses Adobe InDesign to create business and personal use items such as brochures, business cards, flyers, newsletters, graduation announcements, invitations, or others. Emphasis is placed on appropriate design and appearance for printed materials. This course prepares students for BPA competition. Students may receive technical and community college credit through articulation agreement.

## BUS Entrepreneurship

031278

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course is designed for students that are interested in owning or managing a business. Areas covered include creating a business plan, analyzing markets and competitions, planning a new enterprise, marketing the product or service, obtaining capital, and preparing financial statements.

## BUS Keyboarding & Word Basics

035118

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			
College Credit Available			

This course prepares students for BPA competition.

Keyboarding skills are demanded in ALL career areas. With the increase in the use of computers, this course is essential for the student who wants to become more productive.

This course is designed to enhance keyboarding skills with a focus on building accuracy and increasing typing speed. Students will learn basic Microsoft Word 2013 features to format:

- Business letters
- Multiple column tables
- Reports
- Memorandums

Students may receive technical and community college credit through articulation agreement.

## BUS Occupational Mentorship

032318

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Enrollment via application only			

Mentor with a community professional that matches your career interest. The majority of this course will take place outside of the classroom, on the job. Weekly assignments, a journal, a career investigation paper, and a final project will be required.

## BUS Personal Finance

031288

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This class will give you the skills, and tools needed to plan your future financial security. The skills students learn in this course will be used for the rest of their lives. Areas covered in this course include: Financial planning; checking and savings; investments; credit; housing; insurance; taxes; transportation; and budgeting.

## BUS Sports & Entertainment Marketing

031318

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Get ready to learn about one of the most exciting and competitive businesses in the world: Sports and entertainment marketing! Students will learn about what is involved in marketing and advertising the world's greatest names in sports and entertainment. They will develop a marketing/advertising campaign to promote an organization of their choice. The majority of this class is hands-on, project-based learning.

## BUS Sports Officiating A

036121

<b>B</b>	<b>HS</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12			Credits: 0.5
Prerequisite: None			
Certification Available			

Would you like to stay involved with sports? Do you want to provide a valuable service? Would you like to contribute to the education of today's youth? Become a sports official! Men and women of all ages are needed to officiate youth sports at both the middle school and high school level. If you love sports, have a "feel" for the game, and a basic knowledge of the rules, you can be an official.

Students will work to apply the knowledge and skills gained to officiate multiple sports. Officiating rules from the MSHSL and the WCC will be used as guides for this course. Upon successful completion of competencies in this course, a student will become eligible to officiate youth activities within our district and for the MSHSL.

This course is offered with distinct content each trimester. Course section A for Fall term will cover: basketball.

## BUS Sports Officiating B

036122

<b>B</b>	<b>HS</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 9, 10, 11, 12			Credits: 0.5	
Prerequisite: None				
Certification Available				

Would you like to stay involved with sports? Do you want to provide a valuable service? Would you like to contribute to the education of today's youth? Become a sports official! Men and women of all ages are needed to officiate youth sports at both the middle school and high school level. If you love sports, have a "feel" for the game, and a basic knowledge of the rules, you can be an official.

Students will work to apply the knowledge and skills gained to officiate multiple sports. Officiating rules from the MSHSL and the WCC will be used as guides for this course. Upon successful completion of competencies in this course, a student will become eligible to officiate youth activities within our district and for the MSHSL.

This course is offered with distinct content each trimester. Course section B for Winter term will cover: baseball, lacrosse, and softball.

## BUS Sports Officiating C

036123

<b>B</b>	<b>HS</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 9, 10, 11, 12			Credits: 0.5	
Prerequisite: None				
Certification Available				

Would you like to stay involved with sports? Do you want to provide a valuable service? Would you like to contribute to the education of today's youth? Become a sports official! Men and women of all ages are needed to officiate youth sports at both the middle school and high school level. If you love sports, have a "feel" for the game, and a basic knowledge of the rules, you can be an official.

Students will work to apply the knowledge and skills gained to officiate multiple sports. Officiating rules from the MSHSL and the WCC will be used as guides for this course. Upon successful completion of competencies in this course, a student will become eligible to officiate youth activities within our district and for the MSHSL.

This course is offered with distinct content each trimester. Course section C for Spring term will cover: football, soccer, and volleyball.

## BUS TigerMFG: Operations 11 A/B/C

032321 / 032322 / 032323

B	E	Meets Requirement: Elective	
Grades: 11		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Accounting I; Computer Applications I; Marketing ("Money, Money Marketing", "Sports and Entertainment Marketing", or "Principles of Marketing PSEO"); Must complete application and interview process.			
Enrollment by instructor approval via application			

Students will have the opportunity to manage projects ranging from working with TigerMFG, partnering with community business organizations, overseeing fundraising activities, and preparing for business professional organization competitions. Tasks will include: accounting, billing, human resources, marketing, graphic design, sales, audio/visual technology, communications, strategic planning, and teamwork. Students will not take tests or do homework in the traditional sense. Students will be working on projects, presenting reports and collaborating with team members and partnering with community business/organizations. Students are required to register for at least two (2) trimesters, but may enroll in three (3) trimesters. Student enrollment will be determined by application.

## BUS TigerMFG: Operations 12 A/B/C

032401 / 032402 / 032403

B	E	Meets Requirement: Elective	
Grades: 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Accounting I; Computer Applications I; Marketing ("Money, Money Marketing", "Sports and Entertainment Marketing", or "Principles of Marketing PSEO"); Must complete application and interview process.			

Students will have the opportunity to manage projects ranging from working with TigerMFG, partnering with community business organizations, overseeing fundraising activities, and preparing for business professional organization competitions. Tasks will include: accounting, billing, human resources, marketing, graphic design, sales, audio/visual technology, communications, strategic planning, and teamwork. Students will not take tests or do homework in the traditional sense. Students will be working on projects, presenting reports and collaborating with team members and partnering with community business/organizations. Students are required to register for at least two (2) trimesters, but may enroll in three (3) trimesters. Student enrollment will be determined by application.

## BUS Web Design

031298

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Want your own .COM? Do you want to develop attractive, practical, and functional web pages using a web creation software instead of HTML? Come learn Dreamweaver and Flash to express your creative self. This course will explore the foundation of multimedia to develop attractive, practical and functional web pages using Dreamweaver instead of HTML coding. Layout, navigation and interactivity will be stressed.

# Careers 9

In Careers 9, students will be introduced to the world of work and will begin the career exploration process in the context of their chosen TigerPath. Students will research careers choices using the career clusters and pathways framework, define workplace expectations, develop career-readiness skills, and plan for life beyond graduation. Students will also engage in lessons delivered from community experts through partnership with Junior Achievement's Career Success curriculum, which equips students with the tools and skills required to earn and keep a job in high-growth career industries. The class will also integrate lessons from the book "Top 20 Teens," which presents the thinking, learning and communicating skills of effective difference-makers. Finally, Naviance will be utilized in conjunction with the University of Minnesota's Ramp Up to Readiness curriculum in order to help all students graduate from high school ready for postsecondary success.

All students in Grade 9 are required to take a Careers course. Presently, there are six (6) options for students to choose from, each aligned with a TigerPath.

## Courses Offered:

- Careers 9: AgriScience (STREAM TigerPath)
- Careers 9: Design 3-D (STREAM TigerPath)
- Careers 9: Human Services (Human Services TigerPath)
- Careers 9: Intro to Careers (Business TigerPath)
- Careers 9: Mechatronics (STREAM TigerPath)
- Careers 9: SciHi (SciHi TigerPath)

## AGR Careers: AgriScience

011108

<b>S</b>	<b>R</b>	Meets Requirement: Careers 9
Grades: 9		Credits: 0.5
Prerequisite: None		

This Careers class is an activity-based course that acquaints students with different career opportunities in the agriculture industry.. Students will investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, public speaking, and discovering one's potential will be covered as well. This course also includes exploration and basic introduction to the many areas of our nation's largest industry: agriculture. No matter where you live, agriculture touches you every day! Explore units on leadership development, wildlife management, food science, and plant and animal science. Numerous hands on experiences and activities will enhance learning in all areas.

## BUS Careers 9: Introduction to Careers

031108

<b>B</b>	<b>R</b>	Meets Requirement: Careers 9
Grades: 9		Credits: 0.5
Prerequisite: None		

Introduction to Careers is an activity-based course that acquaints students with different career opportunities. Students will investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, and discovering one's potential will be covered as well.

## FAA Careers 9: Design 3-D

021108

<b>S</b>	<b>R</b>	Meets Requirement: Careers 9
Grades: 9		Credits: 0.5
Prerequisites: None		

This course is an activity-based course that acquaints students with different career opportunities based in visual design. While using the design process to create unique objects, students will investigate careers that parallel personal interests, evaluate career decisions, and establish a plan to acquire the skills needed to succeed in the world of work. Careers from aeronautical engineering to web designing will be explored. Personal growth skills such as decision making, goal setting, and discovering personal potential will be addressed, as well.

## SCI Careers 9: SciHi

101108

SH	R	Meets Requirement: Careers 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Careers 9: SciHi is an activity-based course that acquaints students with various science-related career opportunities. Students will investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, and discovering one's potential will be covered as well.

## SOC Careers 9: Human Services

111108

HS	R	Meets Requirement: Careers 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Careers 9: Human Services is an activity-based course that acquaints students with different career opportunities with an emphasis on Human Services, which is focused primarily on careers that emphasize working with people. Students will be exposed to careers in the Human Services pathway through discussions, investigations, research, guest speakers, and field trip opportunities. Students will also investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, and discovering one's potential will be covered as well.

## TEC Careers 9: Mechatronics

121108

S	R	Meets Requirement: Careers 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Careers 9: Mechatronics is an activity-based course that introduces you to different career opportunities in Robotics and Automation, engineering, and manufacturing. Personal growth skills such as decision-making, goal-setting, and discovering one's potential will be covered as well. We will be completing aptitude surveys, educational plans, and goal-setting assignments on Naviance.

# English

## Required Courses: Grade 9

English 9: Communications, and  
English 9: Literature

## Required Courses: Grade 10

English 10: Communications, and  
English 10: Literature,  
or  
English 10: Honors Communications, and  
English 10: Honors Literature

## Required Courses: Grades 11 & 12

**Two (2) elective credits, including:**

0.5 credits of communications, and  
0.5 credits of composition, and  
0.5 credits of literature, and  
0.5 credits of elective

## Elective Courses Offered:

AP Literature / Composition A  
AP Literature / Composition B  
AP Literature / Composition C  
CIS College Composition I (Ridgewater)  
CIS College Composition II (Ridgewater)  
Classic Literature  
Contemporary Literature (offered odd years only)  
Creative Writing (offered odd years only)  
Investigative / Research Writing  
Journalism (offered even years only)



Mystery Genre

Mythology  
Science Fiction / Fantasy (offered odd years only)  
Speech (offered even years only)  
Technical Writing  
Yearbook

## Required Courses:

## ENG English 9: Communications

051111

	<b>R</b>	Meets Requirement: English 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

The emphasis in English 9: Communications is informational texts, writing, and communication skills based on the state standards. In this class, students will analyze the structure of informational texts, utilizing free-choice. Summative assessments will take the form of speeches and compositions including a writing convention (spelling, punctuation, capitalization, grammar) component. Additionally, students will write in a variety of styles including, but not limited to: memoirs; non-fiction; and poetry. Through writing, students will consider effective word choice before final drafts, to ensure author's intent.

## ENG English 9: Literature

051112

	R	Meets Requirement: English 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Using literature standards, and with a thematic approach, students will read William Shakespeare's drama "Romeo and Juliet," a variety of modern and classic short stories, and Sandra Benitez's novel The Weight of All Things. Students are assessed through written-responses connected to state standards. In an effort to help student comprehension of literary pieces, text-based vocabulary is addressed.

## ENG English 10: Communications

051201

	<b>R</b>	Meets Requirement: English 10	
Grades: 10		Credits: 0.5	
Prerequisite: None			

English 10: Communications will focus on the theme of Social Injustice in the 20th and 21st century. Students will read the novel To Kill a Mockingbird as an anchor text. Grammar units include a review of punctuation for application in two summative compositions: a synthesis paragraph to practice skills; and a research paper on an issue related to social injustice. Students will present their research in a small group setting. Vocabulary study will focus on ACT high frequency words in addition to text-based and academic vocabulary.



## ENG English 10: Literature

051202

	<b>R</b>	Meets Requirement: English 10	
Grades: 10		Credits: 0.5	
Prerequisite: None			

English 10: Literature will focus on the theme of the American Dream and how various groups in America work toward their American Dream from the late 19th century to mid-20th century. These groups will include women, African-Americans, and those who moved (immigrants and Gatsby characters). The Great Gatsby will be the anchor text for the trimester and will be supplemented by short stories and poems from the various voices included in the course. Grammar units will focus on phrases and clauses, as well as sentence structure and punctuating phrases and clauses. Students will collaborate on a group presentation connected to the content; summative analysis will be done through a literary analysis paper and a digital collage including design/inclusion rationale. Vocabulary study will focus on ACT high frequency words in addition to text-based and academic vocabulary.

## ENG Honors English 10A: Literature

052211

	R	Meets Requirement: English 10	
Grades: 10		Credits: 0.5	
Prerequisite: None			

Honors English 10: Literature will focus on the theme of the American Dream and how various groups in America work toward their American Dream from the late 19th century to mid-20th century. These groups will include women, African-Americans, and those who moved (immigrants and Gatsby characters). The Great Gatsby will be the anchor text for the trimester and will be supplemented by short stories and poems from the various voices included in the course. Students will also have an independent reading novel of an American author of their choice that can parallel the themes we are focusing on in class. Grammar units will focus on phrases and clauses, as well as sentence structure and punctuating phrases and clauses. Summative analysis will be done through a literary analysis paper, historical context research project, and a digital collage including design/inclusion rationale. Vocabulary study will focus on ACT high frequency words in addition to text-based and academic vocabulary. The coursework of Honors English 10: Literature will be more rigorous in level of analysis, especially on an individual level, as well as the amount of reading and writing.

## ENG Honors English 10B: Communications

052212

	<b>R</b>	Meets Requirement: English 10
Grades: 10	Credits: 0.5	
Prerequisite: None		

Honors English 10: Communications will focus on the theme of Social Injustice in the 20th and 21st century. Students will read the novel To Kill a Mockingbird as an anchor text and choose another independent reading novel to parallel the class readings. Grammar units include a review of punctuation for application in two summative compositions: a synthesis paragraph to practice skills and a research paper on an issue related to social injustice. Students will present their research in a small group setting. Vocabulary study will focus on ACT high frequency words in addition to text-based and academic vocabulary. The coursework of Honors English 10: Communications will be more rigorous in level of analysis, especially on an individual level, as well as the amount of reading and writing.

## Elective Courses:

### ENG AP Literature / Composition A

053331

	E	Meets Requirement: Composition Elective
Grades: 11, 12		Credits: 0.75
Prerequisite: None		
College Credit Available		
Fee: AP Exam		

Throughout AP Lit/Comp A, students will be expected to submit in-depth interpretations and polished writing assignments. Students should have a thorough understanding of the multiple-paragraph form before taking the course. Furthermore, students should expect to encounter a variety of British, American, and world literature consisting of several genres including poetry, essays, novels, plays, and short stories. Latin and Greek roots will be studied early in the trimester, with vocabulary from the novels taking emphasis thereafter. Grammar will be taught based upon the needs of the class. This course is also designed to prepare students for the national examination in May. Students will organize their understanding of complex literary themes into both longer take-home essays and shorter in-class essays. Specifically, AP Lit.Com A will focus on four units of literature: "The Anglo-Saxon and Medieval Periods," "The English Renaissance," "The Restoration and Enlightenment," and "Romanticism." Major works studied may include Macbeth, by William Shakespeare; Great Expectations, by Charles Dickens; and The Scarlet Letter by Nathaniel Hawthorne.

### ENG AP Literature / Composition B

053332

	E	Meets Requirement: Literature Elective
Grades: 11, 12		Credits: 0.75
Prerequisite: AP Literature / Composition A		
College Credit Available		
Fee: AP Exam		

Throughout AP Lit/Comp B, students will be expected to submit in-depth interpretations and polished writing assignments. Students should have a thorough understanding of the multiple-paragraph form before taking the course. Furthermore, students should expect to encounter a variety of British, American, and world literature consisting of several genres including poetry, essays, novels, plays, and short stories. Vocabulary from the novels will be studied as well as grammar based upon the needs of the class. Writing assignments will begin to focus primarily on Claim, Data, Warrant essays in connection to literary works. This course is also designed to prepare students for the national examination in May. Specifically, AP Lit.Com B will focus on three units of literature: "Romanticism," "The Victorians," and "Emerging Modernism." Major works studied may include Jane Eyre, by Charlotte Bronte, a play by William Shakespeare (generally one performed at the Guthrie); and Their Eyes Are Watching God, by Zora Neale Hurston. Students will also practice their literary skills through mock practice AP multiple choice exams and open-response essays.

## ENG AP Literature / Composition C

053333

	E	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: AP Literature / Composition A, B		
College Credit Available		
Fee: AP Exam		

Throughout AP Lit/Comp C, students will be expected to submit in-depth interpretations and polished writing assignments. Students should have a thorough understanding of the multiple-paragraph form before taking the course. Furthermore, students should expect to encounter a variety of British, American, and world literature consisting of several genres including poetry, essays, novels, plays, and short stories. Vocabulary from the novels will be studied as well as grammar based upon the needs of the class. Writing assignments will focus primarily on Claim, Data, Warrant essays in connection to literary works and previous AP essay prompts. This course is also designed to prepare students for the national examination in May. Specifically, AP Lit.Com C will focus on three units of literature: "Emerging Modernism," "Contemporary Voices," and an Independent Novel Study and presentation. Major works studied may include Brave New World, by Aldous Huxley and Life of Pi by Yann Martel. Students will also practice their literary skills through mock practice AP multiple choice exams and open-response essays.

## ENG CIS College Composition I

054341

	E	Meets Requirement: Composition Elective
Grades: 11, 12		Credits: 0.75
Prerequisite: None		
College Credit Available		
Frequency: Offered Tri 1 and/or Tri 2 only		

This course is taught during the first or second trimesters and students will receive concurrent HHS and college credit. The course is designed to give students extended practice at developing and improving their writing abilities. Students work on their writing through a process approach and through an emphasis on critical reading. Assignments range from personal to persuasive writing. Students must meet PSEO requirements and also pass Ridgewater's competency test to take this course.

## ENG CIS College Composition II

054342

	E	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.75
Prerequisite: College Composition I (grade of C- or better)		
College Credit Available		
Frequency: Offered Tri 2 & 3 only		

This course is taught during the third trimester and students will receive concurrent HHS and college credit. An introduction to the research paper stressing methods of research, critical thinking, organization, documentation, and research paper style are the core components of the curriculum. This course focuses on writing from outside sources with at least one major research paper required.

## ENG Classic Literature

051378

	E	Meets Requirement: Literature Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

This course will focus on classic literature from a variety of times and places. Students will study four major pieces of literature as well as one Shakespearean play. Students will examine each piece of literature from a historical as well as literary perspective. Students will study literary terms significant to the novel and analyze the themes, motifs, author's style and characterization. Students will also be expected to complete both formal and informal writing assignments as a way of demonstrating their knowledge of the literature studied.

## ENG Investigative / Research Writing

051358

	E	Meets Requirement: Composition Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

This course is designed to prepare students to independently write research papers for other high school and/or college courses. Students will learn how to extensively research topics and how to annotate, analyze, and organize this information through paraphrasing, quoting, and summarizing. For each composition, students will be expected to proceed through the research process of academic writing, including brainstorming, focusing, researching, drafting, revising, editing, and publishing. Students will learn how to correctly cite information and create a Works Cited page according to MLA documentation style. Other skills covered include smooth integration of sources, source evaluation, sentence structure variety, grammatical / mechanical accuracy, and information synthesis.



## ENG Mystery Genre

051388

	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

In this course, students will explore the history and elements of the mystery genre. Students will explore the qualities and origins of the genre, read a variety of short stories and novels, view movies and compare them to the written forms, and write creatively.

## ENG Mythology

051398

	E	Meets Requirement: Literature Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Mythology will explore major cultural myths and epics from around the world through exploration of mythologies from Greece, Rome, India, China, Australia, Africa, British Isles, Northern Europe, the Americas, and many other times and places. These many mythologies will be analyzed both academically and as entertainment. This will be accomplished using multiple methods of textual analysis.

## ENG Technical Writing

051368

S	E	Meets Requirement: Composition Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Meeting the standard of students writing in a variety of media, students in this class will create written projects reinforcing the style and expectations of writing demanded in the industrial and commercial world. Projects include, but are not limited to, instructional manuals, mission statements, websites, pamphlets, and job postings. The course stresses writing with accuracy, completeness, and purpose.

## ENG Yearbook

051121

	E	Meets Requirement: Communications Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Through the planning, design, and creation of the HHS Tigers yearbook, students will document a year in the history of HHS. Students will produce layouts, take photographs, write feature stories, and manage the production of the yearbook. Additionally, students will incorporate legal and ethical aspects of journalism in marketing assignments and the creation of the yearbook. Tri 1 and Tri 2 will produce the current year's book, while Tri 3 will plan and design the following year's book.

## **Elective Courses (Even Years Only):**

### **ENG Journalism**

051318

	E	Meets Requirement: Communications Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: None		
Frequency: Offered even years only		

This course will provide an in-depth exploration of all aspects of journalism, including: history; ethics; editing; research; writing; layout; and interviewing. Units of study: Journalism history and ethics; layout; news; judgement; interviewing; lead writing; headline writing; attribution; feature writing; sports writing; and editorial writing.

### **ENG Speech**

051328

	E	Meets Requirement: Communications Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: None		
Frequency: Offered even years only		

Speech seeks to further develop "real-life" speaking skills which were introduced in 9th and 10th grade English courses. It is an opportunity to increase the life-long need to communicate more effectively with others. Units of study include persuasion, inspiration, story telling, debate, oral interpretation, entertainment, and drama.

## **Elective Courses (Odd Years Only):**

### **ENG Contemporary Literature**

051385

	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			
Frequency: Offered odd years only			

In this course, students will read a variety of recent fiction, non-fiction, and poetry in order to better understand the issues taking place in modern society. Students will learn to assess social issues from a variety of perspectives through reading, writing and speaking.

### **ENG Creative Writing**

051308

	E	Meets Requirement: Communications Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: None		
Frequency: Offered odd years only		

This class covers various writing styles that extend beyond the formal, traditional classroom structure. The class incorporates peer group editing as well as independent journaling. This is an opportunity for students to enhance the effect of good writing skills as well as self-publish.

### **ENG Science Fiction / Fantasy**

051395

	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			
Frequency: Offered odd years only			

Science Fiction / Fantasy will focus on an overview of the literature of the fantasy and science fiction genre. Learning objectives will focus on the following: close readings of assigned and student-choice texts; writing about the readings and literary elements (plot, character, symbolism, others); vocabulary; grammar; and classroom discussions.

# Family and Consumer Science

## Courses Offered:

Child Development I  
Child Development II  
Child Development III (Ridgewater)  
Family Matters  
Foods I  
Foods II  
Homes & Interiors  
Independent Living  
Teen Issues  
Textiles & Design I  
Textiles & Design II  
World of Work I / II / III

## FCS Child Development I

061308

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Child Development is the study of children following the ages and stages approach to child development from conception through the pre-school years. Students will learn about families and basic parenting skills while studying physical, emotional, social, and intellectual development of infants. Topics will include: prenatal care; the birthing process; birth control; infertility; child abuse; and birth defects. By learning the theories of development you will understand how children grow and change, as well as understanding your own human development.

## FCS Child Development II

062318

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Child Development I			

The transition from infancy to childhood is dramatic! Child Development II is a study of toddlers through adolescent development. After studying the physical, intellectual, emotional/social and moral development of children, the student will apply their knowledge to planning activities for an on-campus preschool for ages 2-5. This will be the culmination of this course and prepares students for Child Development III.

## FCS Child Development III

065328

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Child Development I, II			
College Credit Available			
Frequency: Offered odd years only			

Child Development III gives students an opportunity to take the classroom preschool to a further level. Students will have the opportunity to work in licensed community family daycare homes or community preschools. The student must be able to provide transportation to the daycare/preschool. Instruction and support will be given weekly in the classroom. The teacher will make random visits to the daycare/preschool settings. Students completing Child Development I, II, and III will be eligible for articulated college credit via Ridgewater College.



## FCS Family Matters

065338

<b>HS</b>	<b>E</b>	Meets Requirement: Elective
Grades: 11, 12	Credits: 0.5	
Prerequisite: None		
College Credit Available		

This is a discussion-based class that explores all aspects of family life. Students enrolled will gain knowledge and skills to better understand your present family and your family of the future. This course is for males and females to openly discuss issues involving love, marriage, gender differences, interpersonal communication, and families in crisis. Students successfully completing this course and Teen Issues will be awarded credit by HHS and may receive advanced placement at participating technical and community colleges as determined by our articulation agreement.

## FCS Foods I

061118

<b>B</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12	Credits: 0.5	
Prerequisite: None		
Fee: \$15		

Do you like Rachel Ray? Emeril? Iron Chef America? Then why not step into the kitchen yourself? It's cool to cook! Foods I is an introductory course in food preparation. Students work in lab teams of four as we study kitchen safety, equipment use and care, basic meal planning, and food preparation skills. Students enrolled study nutritional aspects of food and practical consumer "know-how." Lab topics include: quick breads; yeast breads; baking principles; fruit and vegetable cookery; egg and dairy preparation; and full meal organization. Bobby Flay says "every good cook has to start somewhere!"

## FCS Foods II

062208

<b>B</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12	Credits: 0.5	
Prerequisite: Foods I		
Fee: \$15		
Certification Available: ServSafe Food Handler		

Foods II will take students beyond the basics which were taught in Foods I. Students will have an opportunity to experience International cookery and experiment with their own creative gourmet ideas. The class will explore foods as an industry, foods in the marketplace, career opportunities that are available and formal meal preparation. This class challenges the experienced cook!

## FCS Homes & Interiors

061128

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12	Credits: 0.5	
Prerequisite: None		

Explore the exciting world of homes and interior design. Develop a working vocabulary of housing and design terms to communicate design needs effectively. Learn to select furniture and accessories, wall, window, and floor treatments. Design interiors appropriate to a client's needs and space and budget limitations. Guest speakers and field trips bring reality to your experiences that you can apply in your home now and in the future.

## FCS Independent Living

061218

<b>HS</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12	Credits: 0.5	
Prerequisite: None		

It is so easy to take for granted the many needs that are met while living at home. Eventually, we would like to have a place of our own and be self-sufficient. Independent Living is a class designed to prepare students for surviving on their own. Students will study the values and needs of a young household. Consumer shopping skills for buying food, clothing, housing, and vehicles will be investigated. Financial planning, banking and credit will be the basis for a money management unit.

## FCS Teen Issues

065138

HS	E	Meets Requirement: Elective	
Grades: 9, 10		Credits: 0.5	
Prerequisite: None			
College Credit Available			

Teen Issues is a discussion-based class which allows teens to talk about issues that interest them. Students in this course will explore interpersonal relationships with their family and peers. They will practice habits of effective teens and simulate the responsibilities of teen parenthood by caring for a computerized baby. Students will also use the skills in inquiry analysis to research and evaluate issues that affect all teens. Completion of this course and Family Matters will earn the student college articulation.

## FCS Textiles & Design I

061148

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			
Fee: Individual material costs			

This course is designed to give students a background in textiles and sewing. Students will explore characteristics of fibers and fabrics. Basic sewing skills will be taught and practiced. Along with sewing a simple project using printed, visual, and verbal directions you will create a quilt that will dazzle your family and friends.

## FCS Textiles & Design II

062348

<b>B</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Textiles & Design I			
Fee: Individual material costs			

This course is designed for the serious sewer with an interest in fashion, clothing, and textiles. Students will go beyond the basics of Textiles and Design I by planning their own final project which may include constructing garments or quilts using commercial patterns of their choice.

## FCS World of Work I / II / III

061358 / 062368 / 062378

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Instructor permission required			

World of Work is a course that enables students to participate in a career work experience and earn credit for the job in which they are employed. The first three weeks of classroom instruction will emphasize skills needed to be successful in the work environment. The foundation of the course is SCANS Skills including, but not limited to: job application process; legal and safety issues; ethics; goal setting; teamwork; conflict resolution; attitude; customer service; workers' rights; and much more. Students select a specific career field or entry level job in which to participate. Students will utilize skills learned in class and earn elective credit through working in the community. This course has a blended delivery format. The remaining nine weeks will involve online learning assignments and discussions, maintenance of work records, and assessment of job performance by student, employer, and work-based learning coordinator.

# Health & Physical Education

## Required Courses Offered:

### Fitness Requirement:

Aerobics I, or  
Female Strength Training I, or  
Personal Training, or  
Strength Training & Conditioning I

### Health Requirement:

Health 10

## Elective Courses Offered:

### Health Electives:

First Aid & Athletic Training  
First Aid & CPR Lifeguard Training

### Physical Education Electives:

Aerobics II  
Female Strength Training II  
Individual & Dual Sports  
Lifetime Sports I  
Lifetime Sports II  
Recreational Sports I  
Recreational Sports II  
Strength Training & Conditioning II  
Strength Training & Conditioning III

## Required Courses:

### HPE Aerobics I

071118

	<b>R</b>	Meets Requirement: Fitness
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		
Fee: \$5; Access to a bicycle		

Are you interested in a non-competitive environment? Then this is the class for you! Possible activities include: Nutrition; Weight Management; Fitness Planning; Jogging; Weight Training; Pilates; Flexibility; Biking; and various other aerobic activities. There may also be individual or group activities added at the discretion of the teacher.

### HPE Female Strength Training I

071128

	R	Meets Requirement: Fitness	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course will allow students to participate in a well-rounded weight training and conditioning program. The physiological principles of training will be stressed. Activities for the course will include: upper body; lower body and core workouts; agility drills; plyometric exercises; cardiovascular workouts; medicine ball workouts; endurance; strength; and flexibility. Students will be able to focus on their individual needs.

### HPE Health 10

071208

	R	Meets Requirement: Health	
Grades: 10		Credits: 0.5	
Prerequisite: None			

This course provides students the skills, knowledge and ability to increase their life expectancy and vigor throughout life. Students will be engaged in activities to improve health choices. An interactive, multimedia approach will be taken to meet individual academic needs. A variety of teen health issues are explored: mental health; drug use and abuse; human sexuality; and First Aid/CPR/AED training. This course requires some student interaction and participation in projects that demonstrate awareness and competence in the ability to make healthy choices.

## HPE Personal Training

071138

	<b>R</b>	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

In this class students will work to create goals in the areas of target weight, muscle tone, personal health, nutrition and athletic skill development. A personal workout and health program will be tailored to each student to reach these goals. This class will solely work on cardiovascular aerobic workout and a muscle strengthening routine.

## HPE Strength & Conditioning I

071148

	R	Meets Requirement: Fitness
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		

This course is open to both males and females who desire to improve their strength and cardio respiratory endurance. Students will learn about basic strength and conditioning principles and develop the associated strength training skills and techniques. No prior training experience is required, since this course is designed to meet the needs of the beginner as well as the experienced fitness enthusiast.

## Elective Courses:

### HPE Aerobics II

072218

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Aerobics I			
Fee: \$5; Access to a bicycle			

This course is recommended for the individual who enjoys various aerobic activities. Possible activities include: HITT training; Pilates; yoga; cardio training; bicycling; other aerobic activities at the determination and discretion of the instructor.

## HPE Female Strength Training II

072228

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Female Strength Training I			

This course is designed to build upon basic concepts learned in Female Strength Training I or Strength and Conditioning I. It provides opportunities for students to enhance their skills by improving their muscular strength, core strength, and agility. This class is for students who are serious about lifting and are willing to train hard.

## HPE First Aid & Athletic Training

071158

	E	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		
Certification Available		

Students will recognize and care for a variety of first aid emergencies such as burns, cuts, sudden illnesses, head, neck, back injuries, heat and cold emergencies and respond to breathing and cardiac emergencies for adults (about 12 years and older) and pediatric (infants and children up to 12 years of age). Successful students will receive an American Red Cross (ARC) certificate for Adult and Pediatric First Aid/CPR/AED valid for two years. Students will also engage in learning how to respond to, assess and treat athletic injuries as well as ways to help prevent them. Further, students will learn the nuances of training an athlete in various sports through conditioning, nutrition, visualization, and practice. Students will be participating in many of the techniques learned.

## HPE First Aid & CPR Lifeguard Training

071168

	E	Meets Requirement: Elective
Grades: 9, 10, 11, 12	Credits: 0.5	
Prerequisite: None		
Certification Available		
Frequency: Course offered Tri 3 only		
Fee: \$35		

Students will learn about CPR and First AID as well as Lifeguard Training! Students will recognize and care for a variety of first aid emergencies such as burns, cuts, sudden illnesses, head, neck, back injuries, heat and cold emergencies and respond to breathing and cardiac emergencies for adults (12 years and older) and pediatric (infants and children up to 12 years of age). Learn how to effectively prevent and respond to water emergencies with the American Red Cross lifeguard training. Our courses are designed to arm you with the skills and knowledge to prepare you for a variety of scenarios in and around the water. With our lifeguard training, you will learn how quick response times and effective preparation are vital to being a lifeguard while also understanding the crucial elements in helping to prevent drowning and injuries. Successful students will receive an American Red Cross (ARC) certificate for Adult and Pediatric First Aid/CPR/AED valid for two years. Students interested in becoming certified as a Lifeguard will need to apply for an additional \$35 certificate.

## HPE Individual & Dual Sports

071178

	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course will emphasize individual and dual skill improvement and game strategies for students who wish to improve their playing ability beyond what is covered in Recreational Sports. Some of the possible activities may include: tennis; badminton; and pickleball. Other activities may be added at teacher discretion.

## HPE Lifetime Sports I

071198

	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: Previous 0.5 credits of Physical Education			
Fee: \$30			

This course will provide an opportunity to improve skill fundamentals and physical conditioning through a different activity each day. Possible activities include: Badminton; Pickleball; Ultimate Frisbee; Soccer; Basketball; Volleyball; Tennis; Flag football; Golf; Bowling; Biking; and Broomball. Other activities may be added at teacher discretion.

## HPE Lifetime Sports II

072238

	E	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: Lifetime Physical Education I; Recreation Sports I, II		

This class may be taken in conjunction of Lifetime Fitness I. It is recommended for the individual who loves to participate in various lifetime activities and is not afraid of a little competition. Students taking this class will design, incorporate and live a healthy and active life. Recreational Sports I and II is required before taking Lifetime Fitness I and II.

## HPE Recreational Sports I

071188

	E	Meets Requirement: Physical Education	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Student fitness levels are a priority with participation emphasized over athletic ability. Activities involving group skills will include: Ultimate Frisbee; team handball; soccer; flag football; volleyball; basketball; softball; and floor hockey. Individual and recreational activities include: tennis; rope jumping; badminton; Pilates; flexibility training; weight training; and pickleball. Students will study and participate in a variety of individual, dual, and team sports according to the season of the year.

## HPE Recreational Sports II

072248

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course will provide an opportunity to improve skill fundamentals and physical conditioning through a variety of activities. Skill activities may include, but are not limited to: volleyball; football; softball; tennis; Ultimate Frisbee; soccer; badminton; floor hockey; and basketball. Physical conditioning will include, but are not limited to: strength training; aerobic videos; and conditioning exercises. The students will be required to develop a fitness plan as part of the class.

## HPE Strength & Conditioning II

072258

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course is designed to build upon basic concepts learned in Strength and Conditioning I. It provides opportunities for students to enhance their sports skills by improving their strength. This class is for students who are serious about lifting and are willing to train hard. Students will be following the “Bigger Faster Stronger Strength” Training Program.

## HPE Strength & Conditioning III

072308

	E	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: None		

This course is designed to build upon basic concepts learned in Strength and Conditioning I and II. It provides opportunities for students to enhance their sports skills by improving their strength. This course is for students who are serious about lifting and are willing to train hard. Students will be following the Bigger Faster Stronger Strength Training Program.

# Mathematics

9th Grade students generally enter HHS having completed Algebra I in 8th Grade. For these students, the progression of mathematics courses at HHS *might* look like this:

## Grade 9

Geometry A, and  
Geometry B

## Grade 10

Advanced Algebra A, and  
Advanced Algebra B

## Grade 11

Pre-Calculus A, and/or  
AP Statistics A/B

## Grade 12

Pre-Calculus B, and/or  
AP Calculus A/B, or  
CIS College Algebra A/B

## Courses Offered:

Advanced Algebra A  
Advanced Algebra B  
AP Calculus A/B

**NEW**

AP Computer Science: Java A/B  
AP Mobile Computer Science Principles A/B  
AP Statistics A/B  
CIS College Algebra A/B (SMSU)

**NEW**

CIS Mobile Computer Science Principles A/B

**NEW**

Computer Science: Java A/B

Geometry A

Geometry B

Intermediate Algebra B

Intermediate Algebra C

Intermediate Algebra B/C

Introduction to College Math

Introduction to Computer Science

**NEW**

Logic

Mobile Computer Science Principles A/B

Pre-Calculus A/B

## MAT Advanced Algebra A

081201

	R	Meets Requirement: Advanced Algebra	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Advanced Algebra A is an extension of the Algebra I courses. Many of the topics of Algebra I are studied in greater depth in this course. Some additional topics covered are: Linear equations and functions solving equations and inequalities; linear programming systems of equations and inequalities; and polynomials.

## MAT Advanced Algebra B

081202

	R	Meets Requirement: Advanced Algebra; Statistics	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Advanced Algebra B is a continuation of Advanced Algebra A and is an extension of the Algebra I courses. Students are expected to have a working knowledge of Advanced Algebra A concepts. Some additional topics covered are: parabolas; arithmetic and geometric sequences; polynomials and polynomial equations; exponential and logarithmic functions; and statistics.

## MAT AP Calculus A/B

083401 / 083402

	E	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.75 / 0.75
Prerequisite: Pre-Calculus A/B		
College Credit Available		
Fee: AP Exam		

This course is the study of Differential and Integral Calculus. It is devoted to the study of topics that are on the AP Calculus A/B exam. The students will use the derivative and integral in different types of applications. This course is highly recommended for anyone planning on a career in a math/science field.



## **NEW** MAT AP Computer Science A: Java A/B

083161 / 083162

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.75 / 0.75
Prerequisite: Geometry (completed or enrolled in currently)		

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. You'll do hands-on work to design, write, and test computer programs that solve problems or accomplish tasks. Students will: design a program, develop the algorithms it needs, and write code to implement them; test program code and correct errors; document and explain how program code works.

## **MAT AP Mobile Computer Science Principles A/B**

083151 / 083152

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.75 / 0.75
Prerequisite: Geometry (completed or enrolled in currently)		
College Credit Available		
Fee: AP Exam		

In this course you will learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity. This course runs intermingled with CIS Mobile Computer Science Principles A/B.

## **MAT AP Statistics A/B**

083301 / 083302

<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12	Credits: 0.75 / 0.75
Prerequisite: Advanced Algebra B (with grade of C or better)	
College Credit Available	
Fee: AP Exam	

This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns; 2. Sampling and Experimentation: Planning and conducting a study; 3. Anticipating Patterns: Exploring random phenomena using probability and simulation; 4. Statistical Inference: Estimating population parameters and testing hypotheses.

## **MAT CIS College Algebra A/B**

084321 / 084322

<b>E</b>	Meets Requirement: Elective
Grades: 11, 12	Credits: 0.75 / 0.75
Prerequisite: C- or better in CIS College Algebra A to continue	
College Credit Available	

Topics include: algebra fundamentals, equations, and inequalities in one variable; graphs and functions; exponentials; logarithms; systems of equations; and inequalities. There will be an emphasis in this course on the use of graphers and how calculator answers must match algebraic steps to solutions.

## **NEW** MAT CIS Mobile Computer Science Principles A/B

084171 / 084172

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.75 / 0.75
Prerequisite: Geometry (completed or enrolled in currently)		
College Credit Available		
Fee: AP Exam		

In this course you will learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity. This course runs intermingled with AP Mobile Computer Science Principles A/B.

## **NEW** MAT Computer Science: Java A/B

081181 / 081182

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.5 / 0.5
Prerequisite: Geometry (completed or enrolled in currently)		

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. You'll do hands-on work to design, write, and test computer programs that solve problems or accomplish tasks. Students will: design a program, develop the algorithms it needs, and write code to implement them; test program code and correct errors; document and explain how program code works.

## MAT Introduction to College Math

081411

	<b>E</b>	Meets Requirement: Elective
Grades: 12		Credits: 0.5
Prerequisite: None		

This course is designed to help students reinforce their math skills. The goal is that after you take this course you will be able pass the math portion of the Accuplacer test used by community/technical colleges to determine if a student is eligible to take college-level mathematics courses.

## MAT Geometry A

081121

	<b>R</b>	Meets Requirement: Geometry
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		

This course emphasizes inductive and deductive reasoning and strategies of problem-solving. Topics covered are: points; lines; planes; angles; parallels; congruence; similar triangles; right triangles; constructions; loci; and transformations.

## MAT Geometry B

081122

	<b>R</b>	Meets Requirement: Geometry
Grades: 9, 10, 11, 12		Credits: 0.5
Prerequisite: None		

Geometry B is a continuation of Geometry A. This course continues to emphasize inductive and deductive reasoning strategies of problem-solving. Topics covered are: Similar triangles; right triangles; circles; area; volume; and coordinate geometry.

## MAT Intermediate Algebra B

081101

	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11		Credits: 0.5
Prerequisite: None		

Topics covered include: polynomials; exponent rules; slope; graphing; and lines.

## MAT Intermediate Algebra C

081102

	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11		Credits: 0.5
Prerequisite: None		

Intermediate Algebra C is a continuation of Intermediate Algebra B. Students are expected to have a good understanding of all of the concepts learned in Intermediate Algebra B before taking this class. Topics covered include: Pythagorean Theorem; distance formula; polynomials; exponent rules; factoring; quadratic functions; rational and radical expressions; and basic statistics concepts.

## MAT Intermediate Algebra B/C

081118

	<b>E</b>	Meets Requirement: Elective
Grades: 9		Credits: 0.5
Prerequisite: None		

Intermediate Algebra B/C is intended for students who are identified to accelerate through the second half of Intermediate Algebra so that they might also take Geometry the same year. Students are expected to have a good understanding of all of the concepts learned in Grade 8 Algebra A before taking this class. Topics covered include: Pythagorean Theorem; distance formula; polynomials; exponent rules; factoring; quadratic functions; and rational and radical expressions.

## MAT Introduction to Computer Science

081131

	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: Geometry (completed or enrolled in currently)			

In this course, students will learn computer programming using the Python Scripting Language. Once the students have a basic understanding of the Python language, they will design projects to be built using Raspberry Pi computers. This course is intended for any student who would like to deepen their understanding of computers and is able to work well independently.

### MAT Logic

081211

HS	S	E	Meets Requirement: Elective	
Grades: 10, 11, 12			Credits: 0.5	
Prerequisite: None				

Logic is one of the oldest intellectual disciplines in human history. It dates back to Aristotle. It has been studied through the centuries by people like Leibniz, Boole, Russell, Turing, and many others. And it is still a subject of active investigation today. Logic is increasingly being used by computers: to prove mathematical theorems; to validate engineering designs; to encode and analyze laws, regulations, and business rules.

This course will begin with a discussion of possible worlds and illustrate the notion in an application area known as Sorority World. We then give an informal introduction to the key elements of Logic: logical sentences; logical entailment; and logical proofs. We talk about the value of using a formal language for expressing logical information instead of natural language. Finally, we discuss the automation of logical reasoning and some of the computer applications that this makes possible.

## MAT Mobile Computer Science Principles A/B

081141 / 081142

S	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5 / 0.5	
Prerequisite: Geometry (completed or enrolled in currently)			

In this course you will learn computer science by building socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity.

## MAT Pre-Calculus A/B

081311 / 081312

	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5 / 0.5	
Prerequisite: None			

This course is designed to cover topics in Algebra ranging from polynomial, rational, and exponential functions to conic sections. Trigonometry concepts such as Law of Sines and Cosines will be introduced. Students will then begin analytic geometry and calculus concepts such as limits and derivatives. This course is important for any student planning to take a college algebra or calculus. This course is highly recommended for any student planning on a 4-year college education. Students planning to complete AP Calculus should plan to enroll in Pre-Calculus A during Tri 3 of Grade 11 and Pre-Calculus B during Tri 1 of Grade 12.

# Music

## Courses Offered:

AP Music Theory A/B  
 Concert Band A/B/C  
 Concert Band / Varsity Singers A/B/C  
 Concert Choir A/B/C  
 Introduction to Music Theory  
 Symphonic Band / Tiger Chorus A/B/C  
 Symphonic Band A/B/C  
 Tiger Chorus A/B/C  
 Wind Ensemble / Concert Choir A/B/C  
 Wind Ensemble A/B/C  
 Varsity Singers

## FAM AP Music Theory A/B

093301 / 093302

	E	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.75 / 0.75
Prerequisite: None		
College Credit Available		
Fee: AP Exam fee		

The ultimate goal of AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that is heard. This class will alternate with Ear Training/Sight Singing which works on developing the students ability to recognize and be able to notate elements of pitch and rhythm by ear. The skills for each section will complement each other.

## FAM Concert Band A/B/C

091111 / 091112 / 091113

	E	Meets Requirement: Elective
Grades: 9		Credits: 0.5 / 0.5 / 0.5
Prerequisite: None		

Varsity Band rehearses one period every school day. During Varsity Band, we will practice good rehearsal techniques to further the musical education for all students. The playing of solos and ensembles is encouraged. Varsity Band has the opportunity to combine with members of Concert Band and Symphonic Band to form the Marching Band. Eight (8) private or group lessons are required per trimester. Students may enroll in both Varsity Band and Tiger Chorus.

## FAM Concert Band / Varsity Singers A/B/C

091131 / 091132 / 091133

	E	Meets Requirement: Elective	
Grades: 9		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: None			

This is the course you want if you wish to be in both Varsity Band and Varsity Choir. For more description details please see "Varsity Band" and "Varsity Choir" individually.

## FAM Concert Choir A/B/C

091221 / 091222 / 091223

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Enrollment by audition			

Concert Choir is an ensemble that meets daily and performs several times during the year. This ensemble performs music from a variety of genres including classical, pop, Broadway, secular and sacred. Membership is determined as the result of an audition process and all members are strongly encouraged to participate during the entire year (all 3 trimesters). Concert Choir will perform at concerts, festivals, graduation, and other events. Concert Choir is a touring ensemble and will occasionally travel around the region or across the country. Private and group lessons are encouraged and are available outside of the school day or during the school day when possible.

## FAM Introduction to Music Theory

091108

	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

The goal of the Intro to Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music. This class will alternate with Ear Training/Sight Singing which works on developing students' ability to recognize and notate elements of pitch and rhythm by ear. The skills for each section will complement each other.

## FAM Symphonic Band A/B/C

092241 / 092242 / 092243

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5 /0.5	
Prerequisite: Enrollment by audition			

Symphonic Band rehearses one period every school day. During Symphonic Band, we will practice good rehearsal techniques to further the musical education for all students. The playing of solos and ensembles is encouraged. Symphonic Band has the opportunity to combine with members of Concert Band and Wind Ensemble to form the Marching Band. Six (6) Private or group lessons are required per Trimester. Students may enroll in both Symphonic Band and Tiger Chorus.

## FAM Symphonic Band / Tiger Chorus A/B/C

092261 / 092262 / 092263

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: None			

This is the course you want if you wish to be in both Symphonic Band and Tiger Chorus. For more description details please see "Symphonic Band" and "Tiger Chorus" individually.

## FAM Tiger Chorus A/B/C

092251 / 092252 / 092253

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: None			

Tiger Chorus is open to all 10th-12th grade students with the desire to sing. The chorus will meet daily and perform at various times throughout the year. This choir will focus on a variety of choral literature. Private and group lessons are available and encouraged outside the school day.

## FAM Wind Ensemble / Concert Choir A/B/C

091231 / 091232 / 091233

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Enrollment by audition			

This is the course you want if you wish to be in both Symphonic Band and Concert choir. For more description details please see "Symphonic Band" and "Concert Choir" individually.

## FAM Wind Ensemble A/B/C

091211 / 091212 / 091213

	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Enrollment by audition			

Wind Ensemble membership is by audition only. Wind Ensemble rehearses one period each school day. Members of Wind Ensemble will hone their playing skills so that they will become contributing members of the Wind Ensemble. Members of the Concert, Symphonic and Wind Ensemble may choose to participate as members of the Marching Band. Private or group lessons may be required of students that are starting a new instrument or that need to improve their current playing skills to become productive members of the Wind Ensemble. Participation in solo and ensemble contest is highly encouraged. Students may enroll in both Wind Ensemble and Concert Choir.

## FAM Varsity Singers A/B/C

091121 / 091122 / 091123

	E	Meets Requirement: Elective	
Grades: 9		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: None			

Varsity Choir is open to all 9th grade students with the desire to sing. The choir will meet daily and perform four times during the year. This choir will focus on both pop and traditional choral literature. Private and group lessons are available and encouraged outside the school day. Students may enroll in both Varsity Choir and Varsity Band.

# Science

## Science Requirements:

### 1.0 credit in Grade 9 from:

Physical Science: Chemistry

and

Physical Science: Engineering, or

Physical Science: Physics

### 1.0 credit in Grade 10 from:

Biology Kingdoms, and

Cell Biology

### 1.0 credit in Grade 11 or 12 from:

AP Physics A/B, or

Chemistry A/B, or

Physics A/B, or

Food Chemistry, or

Natural Chemistry, and

Natural Physics

## Courses Offered:

Advanced Chemistry

Anatomy & Physiology I

Anatomy & Physiology II

Animal Behavior

AP Biology A/B/C

AP Environmental Science A/B

AP Physics A/B

Astronomy & Meteorology

Biology Kingdoms

Biomedicine

Careers 9: SciHi

Cell Biology

CNA / HHA (Certified Nursing Assistant / Home Health Aide)

Chemistry A/B

Ecology

Food Chemistry

Forensic Science

Geology (offered odd years only)

Natural Chemistry

Natural Physics

Physical Science: Chemistry

Physical Science: Engineering

Physical Science: Physics

Physics A/B

Sport Science

## Required Courses:

### SCI Biology Kingdoms

101208

SH	R	Meets Requirement: Biology 10
Grades: 10	Credits: 0.5	
Prerequisite: None		

Biology Kingdoms is the study of life systems within plants and animals. Students will study the evolutionary development and survival of these systems. Current scientific advances and issues to be studied include biotechnology, genetics, human disease and environmental problems. Laboratory experiences will teach students the scientific method of investigation.

### SCI Careers 9: SciHi

101108

SH	R	Meets Requirement: Careers 9
Grades: 9	Credits: 0.5	
Prerequisite: None		

Careers 9: SciHi is an activity-based course that acquaints students with various science-related career opportunities. Students will investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, and discovering one's potential will be covered as well.

### SCI Cell Biology

101218

SH	R	Meets Requirement: Biology 10
Grades: 10	Credits: 0.5 / 0.5	
Prerequisite: None		

Cell Biology is the study of life systems within plants and animals. Students will study the evolutionary development and survival of these systems. Current scientific advances and issues to be studied include biotechnology, genetics, human disease and environmental problems. Laboratory experiences will teach students the scientific method of investigation.



## SCI Chemistry A/B

101261 / 101262

SH	R	Meets Requirement: Upper-level Chemistry	
Grades: 10, 11, 12		Credits: 0.5 / 0.5	
Prerequisite: None			

Chemistry is theory-centered with emphasis on the understanding of the major concepts of inorganic chemistry. The characteristics of elements or simple substances, the changes that take place when they combine to form other substances and the laws of their combination and behavior under various conditions are studied in Chemistry. Selected experiments will be used to develop a deeper understanding of the theories studied. Chemistry is expected for students anticipating attending a four-year college.

## SCI Food Chemistry

101315

S	R	Meets Requirement: Upper-level Chemistry	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			
Fee: \$20			

Food Chemistry is designed to give students an opportunity to observe and conduct hands-on experiments to learn about the chemistry in food. This course explains how water, carbohydrates, lipids, proteins, vitamins and minerals react in food and the basic chemistry of food products. This hands-on course is laboratory focused and meets the chemistry graduation requirements.

## SCI Physical Science: Chemistry

101118

SH	R	Meets Requirement: Chemistry 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Physical Science: Chemistry is a laboratory-oriented course designed to help students understand the basic concepts in chemistry. Topics of study include the atom, periodic table, chemical equations and reactions, and radioactivity.

## SCI Physical Science: Engineering

101128

S	R	Meets Requirement: Physics 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Physical engineering is a practical physical science explorations class providing students with an introduction to engineering. This is a hands on learning environment where students will develop real world training skills through the use of an automated system technology. The intent of this course is to bridge the connection between physical science and actual usage of engineering technology implemented by local businesses.

## SCI Physical Science: Physics

101138

S	R	Meets Requirement: Physics 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Physics is a hands-on course designed to help students understand the fundamental laws of physics. Areas of study include motion, forces, energy, heat, sound, light, and magnetism.

## SCI Physics A/B

101271 / 101272

S	R	Meets Requirement: Upper-level Physics	
Grades: 10, 11, 12		Credits: 0.5 / 0.5	
Prerequisite: None			

Physics is a laboratory-centered course. Approximately 60% of the total class time is used for lab work. The experiments do allow the student an opportunity to be creative and are open-ended. In addition to lab, some lecture and problems are necessary. Physics is recommended for both college-bound and vocational students. Physics studies mechanics, energy, light, sound and electricity.

## **Elective Courses:**

### **SCI Advanced Chemistry**

**102308**

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Advanced Chemistry expands Physical Science: Chemistry topics. It is recommended for students anticipating science or engineering degrees.

### **SCI Anatomy & Physiology I**

**101238**

SH	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Anatomy & Physiology I is a course designed for students with a strong interest in biology, health concerns, or just want to know about how their body works. We will focus on the structure and function of various body systems (tissues, bones, muscles, circulatory, and nervous). This course is meant to be challenging yet incredibly interesting as it is deeply applicable. Class activities include lecture, videos, projects, labs and dissections (sheep brain, sheep heart, cat).

### **SCI Anatomy & Physiology II**

**102328**

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Anatomy & Physiology II			

Anatomy & Physiology II: A more concentrated look at the human body focused on the physiology aspect of the human body and how the body's systems work and interact with one another. This course will provide an in-depth look at the medical terminology and body systems including: reproductive system; digestive system; endocrine system; immune system and immune diseases; respiratory systems; and the five senses.

### **SCI Animal Behavior**

**101338**

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Do you love animals? Want a career working in veterinary science or the DNR? Then this course is a must to familiarize yourself with the complex and fascinating study of animal behavior. This course is designed to study why living organisms behave in a particular way. Students will make behavioral observations based on living organisms and develop a rationale as to the origin and purpose of these behaviors, in and out of their natural habitat, by analyzing and discussing established and current research data. In addition, each student will develop an invent-a-species project to reinforce the learned behavioral concepts of the course.

### **SCI AP Biology A/B/C**

**103221 / 103222 / 103223**

SH	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.75 / 0.75 / 0.5	
Prerequisite: None			
College Credit Available			
Fee: AP Exam			

The overlying objective of AP Biology is student preparation for the AP Exam, which students may choose to take in mid-May of each year. This exam covers material from Biology 10 and AP Biology. Major areas of study in AP Biology include: Molecular biology; cell biology; photosynthesis; and respirations. Other major areas of study include: 1. Genetics, including cell reproduction, classical genetics, molecular genetics, biotechnology and protein synthesis; 2. A systematic approach to plant biology, regulatory mechanisms and the comparison of plants; 3. A study of the classification of organisms beginning with micro-organisms.

## SCI AP Environmental Science A/B

103341 / 103342

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.75 / 0.75	
Prerequisite: None			
College Credit Available			
Fee: AP Exam			

The AP Environmental Science course has been developed to be a more advanced study of topics in environmental science. Whether you are interested in real world environmental issues or planning a career in the natural world, this would be an excellent course for you. Topics will include the interrelationships of the natural world, identifying and analyzing environmental problems both natural and human-made, evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

## SCI AP Physics A/B

103281 / 103282

S	E	Meets Requirement: Literature Elective	
Grades: 10, 11, 12		Credits: 0.75 / 0.75	
Prerequisite: None			
College Credit Available			
Fee: AP Exam			

AP Physics A/B is part of an algebra/trig-based college course. College-level work will be required. The pace of AP Physics will be about double that of Honors Physics. More topics will be studied than in Honors Physics, specifically rotational motion and periodic motion of pendulums and springs. While the College Board says that this can be a first-year physics course, most students will benefit from having Honors Physics prior to this class. If course load is a concern, taking Honors Physics A and Honors Physics B along with AP Physics B would provide a great background for the AP Physics Test.

## SCI Astronomy & Meteorology

101358

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Meteorology studies the weather and atmosphere. Astronomy studies the behavior and makeup of the planets, stars and galaxies. Students will be required to attend a minimum of six (and graded on eight) early morning or night star observation sessions at Lake Marion Park in order to successfully complete the course. Students are expected to provide their own transportation and to dress for weather that may reach -20°F.

## SCI Biomedicine

101368

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

This course introduces students to the field of clinical laboratory science. During the trimester students will take an in-depth look at safe and sterile lab procedures, handling of biohazard materials, analyze blood, urine, and other body fluids, study diabetes and career options available in the health industry.

## SCI CNA / HHA

106378

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.50	
Prerequisite: None			
Certification Available: CNA; HHA			

The Certified Nursing Assistant (CNA) and Home Health Aide (HHA) course provides classroom and clinical training for individuals interested in pursuing direct patient care in hospitals, nursing homes, or home health care settings. As a CNA, students will be qualified to care for the sick, injured, convalescent, and disabled under the supervision of physicians, licensed practical nurses, and registered nurses. The course includes orientation, basic skills assessment tests, classroom/lab training, and hands-on clinical training. Student will be expected to provide hands-on care during clinicals. Emphasis is placed on the development of the knowledge, attitudes, and skills required of the nursing assistant. Upon completion of all course hours and clinicals, students will be eligible to take the state exam (fee provided by HHS) offered at Ridgewater College and, upon passing, will be recognized by the State of Minnesota in its registry of Certified Nursing Assistants. This course is a prerequisite for most LPN or RN programs in Minnesota and is valuable to anyone interested in direct patient care. Please note that some clinical hours may be held outside of regular school hours.

## SCI Ecology

101388

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			
Fee: \$25			

Ecology enables the student to become totally aware of the interdependence of all life and their relationship to the physical environment. Misuse of natural resources and resulting pollution will be the underlying theme throughout the quarter of this project-oriented course. Much of the course will be conducted out-of-doors at the school's ecology site and at several areas in the community through field trips.

## SCI Forensic Science

101248

SH	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course studies use your general science background as well analyze genetics, hair analysis, ballistics, toxicology, fingerprinting and much more. It analyzes the real truth about blood spatter analysis and crime scene evidence collection. You need a good scientific background in biology, curiosity and attention to detail in order to be successful in this class.

## SCI Geology

101398

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			
Frequency: Offered odd years only			

Geology studies the physical forces at work on the planet Earth, including mountain building, plate movements, volcanism, erosion, deposition, and rock and mineral identification.

## SCI Natural Chemistry

101311

SH	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

An inquiry-based course that applies chemistry to the environment around us and how chemistry affects agriculture and the environment. This course is very laboratory focused and meets the graduation requirement. Only students enrolled in CORE Math are eligible to take this course. All other students should enroll in Chemistry or Honors Physics. This course should not be the chemistry course of choice for any student planning to go to a four-year college.

## SCI Natural Physics

101312

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.5
Prerequisite: None		

The course will cover topics on kinematics, dynamics (Newton's Laws), energy, power and machines. A general physics class to qualify for the state graduation requirement of physics or chemistry to graduate. Only students enrolled in CORE Math are eligible to take this course. All other students should enroll in Chemistry or Honors Physics. This course should not be the physics course of choice for students planning to enter a four-year college.

## SCI Sport Science

101258

<b>SH</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: None		

Sport Science is a course designed for students interested in a field in sports, body movement, physiology, or those simply curious as to how the body works when performing tasks. We will be investigating the structure of the human body as it moves through an athletic motion. The course will engage students in understanding the biomechanics of bones, muscles, and brain working together to accomplish athletic tasks, such as throwing a ball, performing a squat, and more. A portion of the course will involve learning basic physiology to understand life processes in order to maintain homeostasis during activity. Class activities will include lectures, videos, projects, and independent study. In order to be successful, it is recommended that the student participate in all the activities.

# Social Studies

## Required Courses: Grade 9

Careers 9: Human Services  
and  
U.S. History 9, or  
AP U.S. History A/B

## Required Courses: Grade 10

U.S. History 10 A/B, or  
AP U.S. History A/B

## Required Courses: Grade 11

American Government, or  
AP American Government A  
and  
Economics, or  
AP American Government B  
AP U.S. History C

## Required Courses: Grade 12

Geography, or  
AP Human Geography A, or  
and  
World History, or  
AP Human Geography B, or  
CIS Western Civilizations II (Ridgewater)

## Elective Courses Offered:

Action Learning: Education  
American Indian Studies  
AP Psychology A/B  
CIS Introduction to Education (SMSU)  
CIS Sociology (SCSU)  
Holocaust Studies



Introduction to Law Enforcement & Criminal Justice

Psychology  
Social Communication  
Sociology  
Teacher Assistant I / II

## Required Courses SOC American Government

111308

HS	R	Meets Requirement: Government
Grades: 11, 12		Credits: 0.5
Prerequisite: None		

The American Government course includes an introductory study of the U.S. Constitution and Bill of Rights. After establishing an understanding of the philosophical and historical foundation of our constitutional government, attention will focus on the values and principles embodied in the Constitution that shape American institutions and practices.

## SOC AP American Government A/B

113321 / 113322

HS	R	Meets Requirement: Government
Grades: 11, 12		Credits: 0.75 / 0.75
Prerequisite: None		
College Credit Available		
Fee: AP Exam		

A study of the decision making institutions in American Government as well as the linkage institutions connecting the people to their government. Topics of study will include: the Congress; the Presidency; the Federal Bureaucracy; the Federal Courts; as well as political parties; elections; and interest groups.

## SOC AP Human Geography A/B

113421 / 113422

HS	R	Meets Requirement: Geography; World History
Grades: 11, 12		Credits: 0.75 / 0.75
Prerequisite: None		
College Credit Available		
Fee: AP Exam		

The seven major topics of the course (Introduction to Geography; Population; Culture; Political; Agriculture and Rural Landscape; Economic Development and Industrialization; and Urbanization) will be covered during this two-trimester course. We will look at how physical geography impacts human life, and how humans have changed the world around them. This course will prepare you to take the AP Human Geography test in the spring.

## SOC AP U.S. History A/B/C

113121 / 113122 / 113123

HS	R	Meets Requirement: U.S. History 9 or 10	
Grades: 9, 10, 11, 12		Credits: 0.75 / 0.75 / 0.5	
Prerequisite: None			
College Credit Available			
Fee: AP Exam			

The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. Students should be able to read a college-level textbook and write grammatically correct, complete sentences. Students wishing to take this course in Grade 9 must have high reading comprehension scores and the motivation to match the rigor of the course.

## SOC Careers 9: Human Services

111108

HS	R	Meets Requirement: Careers 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Careers 9: Human Services is an activity-based course that acquaints students with different career opportunities with an emphasis on Human Services, which is focused primarily on careers that emphasize working with people. Students will be exposed to careers in the Human Services pathway through discussions, investigations, research, guest speakers, and field trip opportunities. Students will also investigate careers that parallel their interests, evaluate career decisions and establish a plan to acquire the skills needed to succeed in the world of work. Personal growth skills such as decision making, goal setting, and discovering one's potential will be covered as well.

## SOC Economics

113111

<b>B</b>	<b>HS</b>	<b>R</b>	Meets Requirement: Economics	
Grades: 11, 12			Credits: 0.5	
Prerequisite: None				

Economics provides an overview of our economic system. Students will be able to: Identify and apply the basic laws and concepts of economics; evaluate economic performance; analyze government policy impact on the economy; demonstrate an understanding of labor and management negotiations; evaluate international economics on the world economy; demonstrate an understanding of consumer economics; and identify and analyze events and issues and their impact on the economy.

## SOC CIS Western Civilization II

114378

HS	R	Meets Requirement: World History	
Grades: 11, 12		Credits: 0.75	
Prerequisite: None			

Survey of world civilizations and cultures from the ancient period to 1500. Students must meet PSEO requirements and also pass Ridgewater's competency test to take this course. This course will be taught at the high school and meets the World History graduation requirement.



## SOC Geography

111408

HS	R	Meets Requirement: Geography	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

In the Geography course, we will study a variety of cultures, population growth patterns, environmental impact of humans and structures and institutions that affect our everyday lives. We will focus on a global view of human nature and the actions we have that affect each nation and culture in the world. An emphasis will be placed on seeing how the United States fits into the global community.

## SOC U.S. History 9

111111

HS	R	Meets Requirement: U.S. History 9	
Grades: 9		Credits: 0.5	
Prerequisite: None			

Provides a general overview of the history of the United States. In chronological order, students will explore America's past, examining the cultural, political, geographical, economic, and technological changes that have taken place and have helped to shape us and guide us as a nation today. Topics will include issues relating to the discovery of the New World through the Civil War.

## SOC U.S. History 10 A/B

111201 / 111202

HS	R	Meets Requirement: U.S. History 10	
Grades: 10		Credits: 0.5 / 0.5	
Prerequisite: None			

Section A: A 19th and 20th Century look at the people, events and turning points that shape our future. A multi-discipline, multimedia, real-world events course featuring Immigration, Imperialism, Progressivism, two great wars, and the social and economic change of the 20's and 30's.

Section B: A 20th Century look at the people, events and turning points that shape our future. A multi-discipline, multimedia course featuring the Cold War, Industrialization, Civil Rights movement, Vietnam, Nixon and Watergate, and the presidencies of Reagan and Clinton.

## SOC World History

111418

HS	R	Meets Requirement: World History	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

This course will be a comparative study of world history beginning with the Industrial Revolution and the birth of the modern world through contemporary democracies. This course provides students the opportunity to practice historical thinking skills while exploring topics such as world religions, the Columbian exchange, revolutions, and globalization.

## Elective Courses

### SOC Action Learning: Education

111338

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Action Learning: Education serves as a practicum for students interested in a professional career in the field of education. Students will be assigned to observe and engage with students in multiple settings and classrooms over the duration of the trimester under the supervision of professionals in the field. In addition to the time spent in the classroom, students will be required to attend and participate in regular seminars. Students will also be required to regularly submit academic work such as research and personal reflections to the course instructor. Students enrolling in this course must be willing to complete their practicum experience in any Hutchinson school. If assigned to locations other than HHS, HMS, or West Elementary, students must be able to provide their own transportation.

## SOC American Indian Studies

111348

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			
Frequency: Offered even years only			

This course is designed to provide an introduction and vehicle for students to develop a better understanding and appreciation of American Indian History, culture, and contemporary issues. The course will focus on the Ojibwe and Dakota Nations of Minnesota. The course will also include a unit of study on the early history of Minnesota.

## SOC AP Psychology A/B

113351 / 113352

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.75 / 0.75	
Prerequisite: None			
College Credit Available			
Fee: AP Exam			

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

## SOC CIS Introduction to Education

114335

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.75 / 0.75	
Prerequisite: None			
College Credit Available			

An introduction to early childhood, elementary, and secondary education for students interested in teaching. Students will explore their potential for teaching in light of admission criteria and licensure requirements. Includes study of historical and social foundations of education topics such as inquiry into the teaching and learning process, schools in a multicultural and diverse society, the profession of teaching principles of cooperative group learning and cultural differences, communication, and stereotyping. Fifteen hours of field experience is included.

## SOC CIS Sociology

114368

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.75	
Prerequisite: None			
College Credit Available			

Students enrolled in the CIS Sociology course through SCSU will have the opportunity to earn high school and college credit while at the high school. An introduction into the realm of sociology introducing and familiarizing the student with basic sociology, terminology, concepts and theories including culture, personality, stratification, group behavior, conflict, and basic social attitudes and approaches. Human interaction is viewed through the prisms of family, state, religion, education and economics. Students must meet SCSU requirements to take this course.

## SOC Holocaust Studies

113388

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

The Holocaust course will examine the political, social, and historical events that surround the Holocaust. Students will become familiar with the major events of the Holocaust.



## SOC Introduction to Law Enforcement & Criminal Justice

111138

HS	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course covers the spectrum of policing in America. It is a comprehensive introduction to policing including its historical evolution; modern policing approaches; effect of organizational structure and administrative procedure on the police function; assessment of decision-making processes; police community relations; misconduct; and community policing and use of force perspectives. The course will focus on the realities of enforcement and the apprehension of criminals at the federal, state, and local level. The course will also discuss and explain the prosecution, disposition, and incarceration of those suspected of committing criminal offenses.

## SOC Psychology

113358

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

This course is designed to introduce students to the vast and diverse field of psychology. This program provides the educational tools to teach students the principles, concepts and theories that constitutes the core of the study of psychology. This course will give students the knowledge to better understand themselves, their lives and their communities.

## SOC Social Communication

111148

HS	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

This course is a trimester course in speech and communication skills, emphasizing effective interaction with others. The primary units of study include the communication process, audience analysis, listening skills, discussion skills, and public speaking. Students will demonstrate learning through speeches, written assignments, presentations, tests and quizzes, and discussion.

## SOC Sociology

113365

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: None			

Sociology is the study of human social interaction and social organization. Topics of study will include: Sociological research techniques; the nature of culture; conformity and deviance; roles, relationships, and groups, social stratification and the family. Special emphasis will be placed upon diversity and world issues.

## SOC Teacher Assistant I / II

111391 / 111392

HS	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.0	
Prerequisite: None			

Teacher Assistant is designed for students in Grades 11 and/or 12 becoming active citizens in our school and community. Teacher Assistant placements may be completed at HHS only. Students must secure their own placement prior to the start of the trimester the student is scheduled in the course. Teacher Assistant is graded on a pass/fail basis. There is no academic credit offered for this course.

# Technical Education

## Courses Offered:

Architectural Drafting I  
Architectural Drafting II  
Careers 9: Mechatronics  
Drafting I  
Drafting II: CAAD  
Drafting III  
Electricity & Electronics  
Know Your Car  
Machine Tool Operations I  
Machine Tool Operations II  
Machine Tool Operations III  
Recreational Vehicles  
Residential Construction A  
Residential Construction B  
Residential Construction C  
Robotics  
TigerMFG: Production 11  
TigerMFG: Production 12  
Welding I  
Welding II  
Welding III  
Welding IV  
Woodworking I  
Woodworking II: Cabinetmaking  
Woodworking III: Advanced

## TEC Architectural Drafting I

131205

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: None		

Architectural Drafting I is a basic course in residential construction planning and design. A study is made of standard construction practices through the drawing of wall sections, drawing details, basic floor plans and elevation views of a residential home. You will use CADD to design and draw your own dream house.

## TEC Architectural Drafting II

132208

<b>S</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5
Prerequisite: None		

Architectural Drafting II is a course designed to use the fundamentals of drafting I and CADD to design and draw your own modern home. A review of standard and contemporary practices through the drawing of wall sections, drawing details, basic floor plans and elevation views will be addressed. Each student will design and draw a complete set of original house plans using CADD architectural software. If time allows, students will build a model of their design.

## TEC Careers 9: Mechatronics

131108

<b>S</b>	<b>R</b>	Meets Requirement: Careers 9
Grades: 9		Credits: 0.5
Prerequisite: None		

Careers 9: Mechatronics is an activity-based course that introduces you to different career opportunities in Robotics and Automation, engineering, and manufacturing. Personal growth skills such as decision-making, goal-setting, and discovering one's potential will be covered as well. We will be completing aptitude surveys, educational plans, and goal-setting assignments on Naviance.

## TEC Drafting I

131118

S	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Drafting Projections is a course to learn how to create 'technical drawings'. This course will cover geometric constructions, dimensioning, multi-view, pictorial, assembly/detail, and other types of drafting projections used in the creation of technical drawings. This 'hands-on' class will help students learn sketching and CADD to prepare you for the technical world.

## TEC Drafting II: CAAD

135215

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Drafting I			
College Credit Available			

CADD (Computer Aided Drafting and Design) is an advanced drafting course using AutoCad and Creo. Class objectives will be to use the basic and intermediate commands to create cad geometry. Orthographic, 3D lines, and a final design project will be done using this system. This course is articulated with Ridgewater College.

## TEC Drafting III

132218

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Engineering & Design Technology I, II			

This course is an introduction to Pre-Engineering (a solid modeling CADD software) and the Design Process. Students will learn how to use the elements of drafting taught in Drafting I and CADD to draw life-like parts as a solid model. This exciting class is an introductory class for the student interested in drafting or engineering as a career.

## TEC Electricity & Electronics

135228

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Students will develop a basic understanding of electrical components, circuits and integrated circuits, and explore practical hands-on application of this knowledge. Throughout the course, students will learn how electronics can be used in design and engineering as well as everyday life. Using electronics concepts, students will develop a basic understanding of analog and digital electronics. We will use critical thinking and problem-solving skills, test equipment and electronics tools to troubleshoot, measure and test circuits.

## TEC Know Your Car

131238

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			

Automobiles are an important part of our daily lives, so why not learn about them? In this course, we will study the basic systems of a vehicle and apply this knowledge with hands-on experience in the shop. We will apply basic maintenance skills and learn knowledge important to owning a car. Students MUST POSSESS a properly registered vehicle AND a valid driver's license to enroll.

## TEC Machine Tool Operations I

135248

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			
College Credit Available			

This is an introduction to the machine tool operations course. The tool room lathe, vertical spindle mill, surface grinders, and other machines used in the machine tool trades will be introduced. The use of precision measuring tools, the calculation of cutting feeds and speeds, and the geometry of cutting tools will be covered along with the safe operation of the machine tools. Students wishing to earn two Ridgewater College articulation credits will need to take Machine Tool I & II in order to meet the required objectives.

## TEC Machine Tool Operations II

135308

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Machine Tool Operation I			
College Credit Available			
Fee: \$25			

Machine Tool Operations II builds on the skills learned in Machine Tool Operation I. Students will also be introduced to CNC (Computer Numerical Control) machining technology and use these CNC machines to produce a multiple part project. The use of precision measuring tools, the calculation of cutting feeds and speeds, and the geometry of cutting tools will be covered along with the safe operation of the machine tools. We will also tour several local companies to explore career options. Students wishing to earn Ridgewater College articulation credits will need to take Machine Tool I & II in order to meet the required objectives.

## TEC Machine Tool Operations III

135318

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Machine Tool Operation I, II			
College Credit Available			
Fee: \$25			

This course will build on the concepts learned in Machine Tool I and II. Computer Numerical Control (CNC) machining technology will be the emphasis. The student will learn and use safe practices to operate the CNC machines. The student will be able to identify parameters for material and use basic setup techniques for machining projects. The student will complete several small projects on a CNC lathe and/or CNC mill.

## TEC Recreational Vehicles

131258

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			
Fee: \$25			

Recreational Vehicles involves an overview of the theory, maintenance, and diagnostics associated with motorcycles, snowmobiles, personal watercraft, and other small engines. Hands-on experience is gained in a variety of technologies, and problem-solving situations.

## TEC Residential Construction A

132321

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Woodworking I;Drafting I			

This course will cover all the various skills involved in construction: site layout, framing and finish carpentry, roofing, insulation and vapor control, finishing, painting, cabinet making and countertops. Students will have the opportunity to observe plumbing, HVAC, and electrical trades. Subject areas will include: Blueprint reading; material estimating; scheduling; cost evaluations; and Geometry.

## TEC Residential Construction B

132322

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Residential Construction A			

This course will cover all the various skills involved in construction: site layout, framing and finish carpentry, roofing, insulation and vapor control, finishing, painting, cabinet making and countertops. Students will have the opportunity to observe plumbing, HVAC, and electrical trades. Subject areas will include: Blueprint reading; material estimating; scheduling; cost evaluations; and Geometry.

## TEC Residential Construction C

132323

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Residential Construction A & B			

This course will cover all the various skills involved in construction: site layout, framing and finish carpentry, roofing, insulation and vapor control, finishing, painting, cabinet making and countertops. Students will have the opportunity to observe plumbing, HVAC, and electrical trades. Subject areas will include: Blueprint reading; material estimating; scheduling; cost evaluations; and Geometry.

## TEC Robotics

135268

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: None			
College Credit Available			

This is a hands-on course on introduction to robotics. The course will present the basic concepts in robotics, such as sensors, actuators, and will describe the most important approaches to robot control. Students will have the opportunity to apply the concepts by constructing their own robots and developing controllers for various robotic tasks. This course is for anyone interested in Mechanical design, Engineering, Electronics, Programming, or robotics design. Students meeting the necessary benchmarks may earn articulated college credit.

## TEC TigerMFG: Production 11 A/B/C

132331 / 132332 / 132333

S	E	Meets Requirement: Elective	
Grades: 11		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Completion of at least two (2) TEC courses (may include Ag Welding) with a grade "B" or better			
Enrollment by instructor approval via application			

This course will operate its own student-run business out of the HHS CTE Center. The course will focus on all aspects of today's manufacturing and construction industries. Students will use previously learned skills from prerequisites listed above. The students will be responsible for: quoting jobs; ordering material; manufacturing parts; quality control; shipping; receiving; invoicing; customer service; keeping track of hours; maintaining equipment; and everything else it takes to run a business. The class will also be generating funds to help further our CTE program and may provide a percentage of profits to students for working hard and smart in the form of scholarships. Students are required to register for at least two (2) trimesters, but may enroll in three (3) trimesters. Student enrollment will be determined by application.

Objectives:

1. Teach career success principles
2. Advance technical skills
3. Understand operations of business
4. Teambuilding
5. Enhance customer service skills and learn professional manners
6. Career opportunity awareness
7. Project management
8. Emulate real manufacturing operations

ITEEA Standards

1. Career Development
2. Creativity, Critical Thinking, Communication and Collaboration
3. Environment, Health and Safety
4. Global and Cultural Awareness
5. Information, Media & Technology
6. Leadership



## TEC TigerMFG: Production 12 A/B/C

132401 / 132402 / 132403

S	E	Meets Requirement: Elective	
Grades: 12		Credits: 0.5 / 0.5 / 0.5	
Prerequisite: Completion of at least two (2) TEC courses (may include Ag Welding) with a grade "B" or better			
Enrollment by instructor approval via application			

This course will operate its own student-run business out of the HHS CTE Center. The course will focus on all aspects of today's manufacturing and construction industries. Students will use previously learned skills from prerequisites listed above. The students will be responsible for: quoting jobs; ordering material; manufacturing parts; quality control; shipping; receiving; invoicing; customer service; keeping track of hours; maintaining equipment; and everything else it takes to run a business. The class will also be generating funds to help further our CTE program and may provide a percentage of profits to students for working hard and smart in the form of scholarships. Students are required to register for at least two (2) trimesters, but may enroll in three (3) trimesters. Student enrollment will be determined by application.

### Objectives:

1. Teach career success principles
2. Advance technical skills
3. Understand operations of business
4. Teambuilding
5. Enhance customer service skills and learn professional manners
6. Career opportunity awareness
7. Project management
8. Emulate real manufacturing operations

### ITEEA Standards

1. Career Development
2. Creativity, Critical Thinking, Communication and Collaboration
3. Environment, Health and Safety
4. Global and Cultural Awareness
5. Information, Media & Technology
6. Leadership

## TEC Welding I

131128

S	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			
Fee: Based on student-identified project(s)			

Students will have the opportunity to learn basic welding techniques and procedures. Students will be expected to demonstrate competency in basic welding techniques, measuring, and project fabrication. Welding processes include: Shielded Metal Arc Welding (SMAW); Oxy-Fuel Welding and Cutting (OFW/OFC); and Gas Metal Arc Welding (GMAW).

## TEC Welding II

132278

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Welding I			
College Credit Available			
Fee: \$25 + additions based on student-identified project(s)			

Students will build on skills and knowledge acquired in Welding I. Students will be introduced to Gas Tungsten Arc Welding (GTAW) process and to welds in the vertical and overhead positions. Basic weld symbol and shop drawing creation and reading will be reviewed. As a result of this course, students should be prepared to enter a post-secondary welding program in pursuit of a welding manufacturing career. A self-identified and planned project will be the culmination of this course.

## TEC Welding III

132368

S	E	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5	
Prerequisite: Welding I, II			
College Credit Available			
Fee: \$25 + additions based on student-identified project(s)			

Students will build on skills and knowledge acquired in Welding I and II. Students will learn techniques and theory of welding aluminum and stainless steel. Basic weld symbol and shop drawing creation and reading will be reviewed. As a result of this course, students should be prepared to enter the workforce as an entry-level employee ready for further on-the-job training. A self-identified and planned project will be the culmination of this course.

## TEC Welding IV

132378

S	E	Meets Requirement: Elective	
Grades:11, 12		Credits: 0.5	
Prerequisite: Welding I, II, III			
College Credit Available			
Fee: \$25 + additions based on student-identified project(s)			

This course is designed to build on skills and competencies learned in previous welding courses. Students will be introduced to Spray Arc (GMAW-S) and Pulsed Spray (GMAW-P) welding as well as aluminum GMAW welding. The focus of student learning will then move past introducing new techniques and processes and into application in a manufacturing setting. Students will be expected to complete a group manufacturing project as well as a self-identified and planned project.

## TEC Woodworking I

131138

S	E	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5	
Prerequisite: None			

If you are interested in building things with 'hands on' experience, this is the class for you! Activities associated with production, manufacturing, materials design, and processing will be examined. This class is an excellent choice for students interested in woodworking at the entry to intermediate level. Projects will include a traditional woods project. This class is highly recommended for students planning to take construction technology and residential construction courses, or if you are interested in engineering and design.

## TEC Woodworking II: Cabinetmaking

132285

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Woodworking I			
Fee: Dependent on self-identified project material costs			

This course is designed as an intermediate level woodworking class. It is for anyone interested in the fundamentals of materials, tools, machines, and cabinet design. Attention to good design, material use, craftsmanship, and modern technology in the woodworking industry. An advanced project is selected and constructed. This class is highly recommended for students planning to take construction technology and residential construction class. This course may be taken for more than one trimester with teacher approval. Students will then be able to take on more complex and advanced projects.

## TEC Woodworking III: Advanced

132288

S	E	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5	
Prerequisite: Woodworking I, II			
Fee: Dependent on self-identified project material costs			

This course is for students interested in advanced woodworking and furniture design. Project design, planning, production, and assembly will be covered in this class. This class is highly recommended for anyone interested in the design, architecture, engineering, or construction fields. This course may be taken for more than one trimester with teacher approval. Students will then be able to take on more complex and advanced projects.

# World Languages

## Courses Offered:

German I A/B

German II A/B

CIS College German III A/B (SCSU)

CIS College German IV A/B (SCSU)



CIS Introduction to German Culture (SCSU)

Spanish I A/B

Spanish II A/B

Spanish III A/B

CIS College Spanish IV A/B (SMSU)

## WLD German I A/B

141101 / 141102

<b>T</b>	<b>E</b>	Meets Requirement: Elective
Grades: 9, 10, 11, 12		Credits: 0.5 / 0.5
Prerequisite: None		

German I is a communication-based course that serves as an introduction to listening, speaking, reading, and writing. The course is designed to allow students to communicate with language at a beginning level using high-frequency structures. Students will engage with cultural topics from countries where the target language is spoken.

## WLD German II A/B

142201 / 142202

<b>T</b>	<b>E</b>	Meets Requirement: Elective
Grades: 10, 11, 12		Credits: 0.5 / 0.5
Prerequisite: German I		

German II is a continuation of reading, writing, listening, and speaking instruction that builds upon skills acquired in German I. A strong emphasis on learning is placed on communicating with high frequency structures and developing a broader communication base. Students will engage with cultural topics from countries where the target language is spoken.

## WLD CIS College German III A/B

144301 / 144302

<b>T</b>	<b>E</b>	Meets Requirement: Elective
Grades: 11, 12		Credits: 0.75 / 0.75
Prerequisite: German I, II		
Fee: \$20 (AAPPL exam)		

German III is a continuation of German II. Emphasis is placed upon basic vocabulary and structures to prepare students for developing proficiency in the language. Listening, speaking, reading, writing, and cultural skills building emphasized. Students will increase understanding and appreciation of culture of countries where language is spoken. This course is taught in partnership with St. Cloud State University (SCSU), and concurrent credit will be awarded. At the conclusion of the course, students will take the AAPPL proficiency assessment.

## WLD CIS College German IV A/B

144401 / 144402

<b>T</b>	<b>E</b>	Meets Requirement: Elective
Grades: 12		Credits: 0.75 / 0.75
Prerequisite: German I, II, III		
College Credit Available		
Enrollment by instructor approval		
Fee: \$20 (AAPPL exam)		

German IV is a continuation of German III. Emphasis is placed on basic vocabulary and structures to prepare students for developing proficiency in German. Listening, speaking, reading, writing, and cultural skills building are emphasized. Students will increase understanding and appreciation of culture of countries where language is spoken. This course is taught in partnership with St. Cloud State University (SCSU), and concurrent credit will be awarded. At the conclusion of the course, students will take the AAPPL proficiency assessment.

## WLD CIS Introduction to German Culture

144228

<b>T</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.75	
Prerequisite: None			
College Credit Available			

The study of German cultural forms in relation to the artistic, intellectual, historic, and literary traditions of the 20th-century German-speaking world.

The goal of this course is to learn to evaluate significant writings and works of art from German culture. Students will: become familiar with significant literature, popular music, film and art from German-speaking countries in its historical and cultural context; reflect critically upon the representations of German-speaking culture.

By the end of the course, students will have attained a level of knowledge about the culture and history of German-speaking cultures, the problems and issues facing Germany now and then. Students will be asked to write reading responses as noted in the syllabus, participate in discussions, take a final and create a project (academically or creative) that allows you one aspect of German-speaking culture in greater depth.

## WLD Spanish I A/B

141111 / 141112

<b>T</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 9, 10, 11, 12		Credits: 0.5 / 0.5	
Prerequisite: None			

Spanish I is a communication-based course that serves as an introduction to listening, speaking, reading, and writing. The course is designed to allow students to communicate with language at a beginning level using high-frequency structures. Students will engage with cultural topics from countries where the target language is spoken.

## WLD Spanish II A/B

142211 / 142212

<b>T</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 10, 11, 12		Credits: 0.5 / 0.5	
Prerequisite: Spanish I			

Spanish II is a continuation of reading, writing, listening, and speaking instruction that builds upon skills acquired in Spanish I. A strong emphasis on learning is placed on communicating with high frequency structures and developing a broader communication base. Students will engage with cultural topics from countries where the target language is spoken.

## WLD Spanish III A/B

142311 / 142312

<b>T</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 11, 12		Credits: 0.5 / 0.5	
Prerequisite: Spanish I, II			
College Credit Available			
Fee: \$20 (AAPPL exam)			

Spanish III is a continuation of Spanish II. Emphasis is placed upon increased vocabulary and structures to prepare students for developing proficiency in the language. Listening, speaking, reading, writing and cultural skills building is emphasized. Students will increase understanding and appreciation of culture of countries where language is spoken. At the conclusion of the course, students will take the AAPPL proficiency assessment for the chance to earn the Minnesota Seal of Biliteracy. Depending on the level achieved, there is a possibility of earning college credit at schools in the Minnesota State system.

## WLD CIS College Spanish IV A/B

144411 / 144412

<b>T</b>	<b>E</b>	Meets Requirement: Elective	
Grades: 12		Credits: 0.75 / 0.75	
Prerequisite: Spanish I, II, III			
College Credit Available			
Enrollment by instructor approval			
Fee: \$20 (AAPPL exam)			

Spanish IV is a concurrent enrollment course with Southwest State University (SMSU). Successful completion of the course will result in college credit. The objective of this class is to increase proficiency in the language skills (listening, reading, speaking, writing, and culture/history) essential to communicative language learning. This is a Spanish intensive intermediate course where the cultivation of intercultural awareness will play a key role among the topics and activities covered by each lesson. Students are expected to provide substantial information in their essays regarding multicultural topics and a good development of ideas with supporting details or evidence. Rich use of vocabulary with frequent attempts at elaboration is also expected to succeed in this course. At the conclusion of the course, students will take the AAPPL proficiency assessment for the chance to earn the Minnesota Seal of Biliteracy. Depending on the level achieved, there is a possibility of earning college credit at schools in the Minnesota State system.