



Hutchinson High School  
Course Registration Handbook  
2024-25



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# General Information

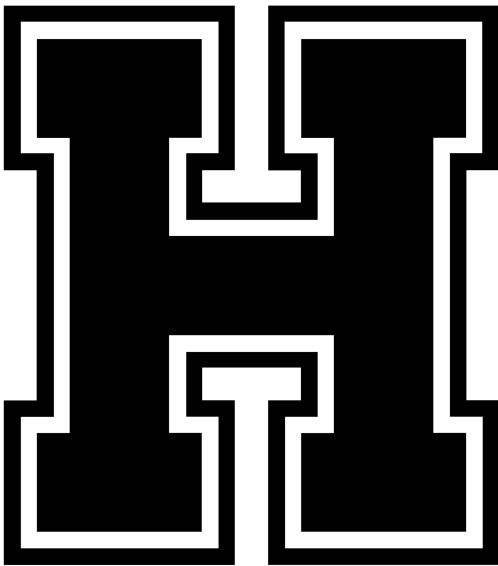
## Welcome to Hutchinson High School!

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!



# 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
- ★ The percentage of students attending a 4-year college who will graduate within 6 years is about 60%.
- ★ The cost of attending a 4-year university has been steadily increasing, and has nearly tripled since 1980. Depending on the school, earning a bachelor's degree from a public university might cost \$60,000 or more in tuition and fees, plus room and board.
- ★ In February of 2023, about 40% of recent bachelor's prepared 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** Business TigerPath

**HS** Human Services TigerPath

**SH** SciHi TigerPath

**S** STREAM TigerPath

**T** Courses with skills applicable to all TigerPaths

### Course Type

**E** Elective Course

**R** 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><br>0.5 credit   | <b>Grade 9: 0.5 credit</b><br>0.5 credit of Careers 9 course (choice by TigerPath)                                                                                                                                                                                                                                                                                                                                                                            |
| <b>English</b><br>4.0 credits           | <b>Grade 9: 1.0 credit</b><br>English 9: Composition (0.5) and<br>English 9: Literature (0.5)<br><br><b>Grade 10: 1.0 credit</b><br>English 10: Composition (0.5) and<br>English 10: Literature (0.5)<br><br><b>Grades 11 &amp; 12: 2.0 credits</b><br>0.5 credit of Communication<br>0.5 credit of Composition<br>0.5 credit of Literature<br>0.5 credit of English electives                                                                                |
| <b>Fine Arts</b><br>1.0 credit          | <b>Grades 9-12: 1.0 credit</b><br>1.0 credit of music, visual/media arts, and/or theater                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Health</b><br>0.5 credit             | <b>Grade 10: 0.5 credit</b><br>0.5 credit of Health 10                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Math</b><br>3.0 credits              | <b>Grades 9-12:</b><br>1.0 credit of Geometry A/B<br>1.5 credit of MAT Int. Algebra, Algebra IIA,<br>Algebra IIB<br>0.5 credit of Statistics                                                                                                                                                                                                                                                                                                                  |
| <b>Physical Education</b><br>1.0 credit | <b>Grades 9-12: 1.0 credit</b><br>0.5 credit of fitness requirement<br>0.5 credit of Physical Education elective                                                                                                                                                                                                                                                                                                                                              |
| <b>Science</b><br>3.0 credits           | <b>Grade 9: 1.0 credit</b><br>Earth Science: Geology (0.5), and<br>Earth Science: Astronomy/Meteorology (0.5)<br><br><b>Grade 10: 1.0-1.5 credits</b><br>AP Biology A/B (1.5) or<br>Biology Kingdoms (0.5) and<br>Cell Biology (0.5)<br><br><b>Grades 11 &amp; 12: 1.0-1.5 credits</b><br>AP Physics A/B (1.5), or<br>Chemistry A/B (1.0), or<br>AP Chemistry A/B (1.5), or<br>Physics A/B (1.0), or<br>Natural Chemistry (0.5), and<br>Natural Physics (0.5) |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Social Studies</b><br>3.5 credits      | <b>Grade 9: 0.5 credit or 2.0 credits</b><br>U.S. History 9 (0.5), or<br>AP U.S. History A/B/C (2.0)<br><br><b>Grade 10: 1.0 credit or 2.0 credits</b><br>U.S. History 10 A/B (1.0), or<br>AP U.S. History A/B/C (2.0)<br><br><b>Grade 11: 1.0-1.5 credits</b><br>American Government (0.5), or<br>AP American Government A (0.75), or<br>AP U.S. History C (0.5)<br>and<br>Economics (0.5), or<br>AP American Government B (0.75)<br><br><b>Grade 12: 1.0-1.5 credits</b><br>Geography (0.5), or<br>AP Human Geography A (0.75)<br>and<br>World History, or<br>AP Human Geography B, or<br>CIS College World History |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ramp-Up to Readiness</b><br>1.0 credit | <b>Grades 9-12: 1.0 credit</b><br>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 Chemistry  
AP Computer Science A: Java  
AP Human Geography  
AP Literature and Composition  
AP 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  
Graphic Design/Illustration I and II  
Human Relations  
Keyboarding & Word Basics  
Machine Tool Operations I  
Machine Tool Operations II  
Machine Tool Operations III  
Photography I and II  
Robotics  
Teen Issues  
Video Production I and II

# HUTCHTIGERS

### 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.

#### **9 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 Spanish IV A/B (SMSU)  
CIS College World History (SCSU)  
CIS Introduction to Education (SMSU)  
CIS Computer Science Principles A/B (SMSU)  
CIS Sociology (SCSU)

### 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.

# 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  
Fisheries & Wildlife Management  
Floriculture  
Floriculture II  
Horticulture  
International Agriculture  
Landscape Design  
Natural Resources  
STREAM Internship  
Veterinary Science

## AGR Agribusiness

011208

|                                          |   |                             |  |
|------------------------------------------|---|-----------------------------|--|
| S                                        | E | 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 futures 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 |   |                             |  |

This course is designed for students who want to understand the large animal livestock industry. Students will study animal welfare, animal body systems, breed selection, genetics, nutrition, and care and management of swine cattle, poultry, sheep and horses. Students will get the opportunity to interact with live animals and livestock experts. If you raise animals or are looking into an animal-related occupation, this class will provide you with the basic knowledge for this field.



## 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 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! 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 are considering a career in the animal care industry or want knowledge to be a pet owner. This class will give you the opportunity to learn more about the many different areas of the small animal industry and career field as well as help you be a better pet owner. You will be able to identify many of the different breeds of various animals, develop a healthcare plan for companion animals, and display your understanding of different animal behaviors and training. Students will have opportunities throughout the trimester to get hands-on experience with live animals and will be working with companion animal experts.

## AGR Fisheries & Wildlife Management

011268

|                                                    |   |                             |  |
|----------------------------------------------------|---|-----------------------------|--|
| S                                                  | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                              |   | Credits: 0.5                |  |
| Prerequisite: None                                 |   |                             |  |
| Fee: Dependent on student-identified project costs |   |                             |  |

Do you spend your Fall in a deer stand, winters on the ice, and summer out on the lake ready for the next biggest catch? Then this course is for you! This course is designed to introduce and dive deeply into the world of wildlife and fisheries. Students will explore hands-on projects and activities while studying topics such as wildlife care, animal tracking, fish care, and so much more. Some amount of time is spent outdoors if weather permits.

## AGR Floriculture

011128

|                       |   |                             |  |
|-----------------------|---|-----------------------------|--|
| S                     | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12 |   | Credits: 0.5                |  |
| Prerequisite: None    |   |                             |  |
| Fee: \$40             |   |                             |  |

This course is project based and will include the creation of floral arrangements, corsages, boutonnieres, and learn elements of floral design. 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.



## AGR Floriculture II

011129

|                            |   |                             |  |
|----------------------------|---|-----------------------------|--|
| S                          | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12         |   | Credits: 0.5                |  |
| Prerequisite: Floriculture |   |                             |  |
| Fee: \$50                  |   |                             |  |

This course covers many of the more advanced techniques and hands-on activities you would need to know in order to become a Florist. Complex arrangement techniques will be learned and demonstrated using both artificial and fresh flowers. A large portion of the term will be spent learning about various occasions and designing a portfolio for a wedding, where you will be able to be creative and demonstrate your knowledge of the industry. Students must have passed Floriculture in order to enroll in this course...if the assignments and projects in Floriculture were challenging, you may want to consider a different class.

## AGR Horticulture

011248

|                       |   |                             |  |
|-----------------------|---|-----------------------------|--|
| S                     | E | Meets Requirement: Elective |  |
| Grades: 9, 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

|                    |   |                             |  |
|--------------------|---|-----------------------------|--|
| S                  | E | Meets Requirement: Elective |  |
| Grades: 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 security, and other agricultural issues.

## AGR Landscape Design

011258

|                    |   |                             |  |
|--------------------|---|-----------------------------|--|
| S                  | E | 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 outside landscaping and work on other landscaping projects.

## AGR Natural Resources

011148

|                                                    |   |                             |  |
|----------------------------------------------------|---|-----------------------------|--|
| S                                                  | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                              |   | Credits: 0.5                |  |
| Prerequisite: None                                 |   |                             |  |
| Fee: Dependent on student-identified project costs |   |                             |  |

This course is designed to introduce the wonderful world of our natural resources and all it has to offer as well as how to manage them for future generations. Students will explore hands-on projects and activities while studying topics such as outdoor recreation, water testing, soil sampling, forestry practices, orienteering, and energy processes! A considerable amount of time is spent outdoors if weather permits.

## AGR STREAM Internship

011328

|                    |   |                             |  |
|--------------------|---|-----------------------------|--|
| S                  | E | 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: Companion Animals or Animal Science |    |   |                             |

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.

# Art

## Courses Offered:

Art I: Ceramics  
Art 1: Drawing & Painting  
Art I: Video Production  
Art I: Graphic Design/Illustration  
Art I: Photography  
Careers 9: Design 3-D  
Art II: Ceramics  
Art II: Drawing & Painting  
Art II: Video Production  
Art II: Graphic Design/Illustration  
Art II: Photography  
Art III: Ceramics  
Art III: Media Arts  
Art III: Paint/Draw  
Art IV: Studio A/B  
**Archived**  
AP Studio Art: 2-D Design A/B

## FAA Art I: Ceramics

021113

|                       |   |                        |  |
|-----------------------|---|------------------------|--|
| S                     | E | Meets Requirement: Art |  |
| Grades: 9, 10, 11, 12 |   | Credits: 0.5           |  |
| Prerequisite: None    |   |                        |  |
| Fee: \$15             |   |                        |  |

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

## FAA Art I: Drawing & Painting I

021114

|                       |   |                        |  |
|-----------------------|---|------------------------|--|
| S                     | E | Meets Requirement: Art |  |
| Grades: 9, 10, 11, 12 |   | Credits: 0.5           |  |
| Prerequisite: None    |   |                        |  |
| Fee: \$10             |   |                        |  |

Explore the techniques, and develop the skills that artists use to create dynamic works of art. Learn how to use pencil and charcoal to create everything from the abstract, to the photorealistic.

## FAA Art I: Graphic Design/Illustration

021115

|                       |   |                        |  |
|-----------------------|---|------------------------|--|
| S                     | E | Meets Requirement: Art |  |
| Grades: 9, 10, 11, 12 |   | Credits: 0.5           |  |
| Prerequisite: None    |   |                        |  |
| Fee: \$5              |   |                        |  |

Explore the world of Graphic Design and Illustration. Design and Illustrate projects using Adobe Illustrator. Design examples include logos, web headers, posters, and product packaging. Illustrations add visuals to enhance poetry, books, albums, and other media.

## FAA Art I: Photography

021116

|                                                                                                 |   |                        |  |
|-------------------------------------------------------------------------------------------------|---|------------------------|--|
| S                                                                                               | E | Meets Requirement: Art |  |
| Grades: 9, 10, 11, 12                                                                           |   | Credits: 0.5           |  |
| Prerequisite: None                                                                              |   |                        |  |
| Fee: \$5 and students will need a 32gb SD card, purchased on their own or from school for \$10. |   |                        |  |

Turn everyday photos into works of art! Uniquely capture moments in time by learning to use a digital camera and developing composition techniques. Learn to edit naturally and artistically using Adobe Photoshop software.

## FAA Art I: Video Production

021117

|                                                                                        |   |                        |  |
|----------------------------------------------------------------------------------------|---|------------------------|--|
| S                                                                                      | E | Meets Requirement: Art |  |
| Grades: 9, 10, 11, 12                                                                  |   | Credits: 0.5           |  |
| Prerequisite: None                                                                     |   |                        |  |
| Fee: Students will need a 32gb SD card, purchased on their own or from school for \$10 |   |                        |  |

Lights, Camera, Action! Learn to use a digital camcorder, basic video production techniques, and video editing using Adobe Premiere Pro. Students will have the opportunity to write, direct, and edit four different video projects during this introductory course.

## FAA Careers 9: Design 3-D

021108

|                     |   |                              |  |
|---------------------|---|------------------------------|--|
| S                   | R | Meets Requirement: Careers 9 |  |
| Grades: 9           |   | Credits: 0.5                 |  |
| Prerequisites: None |   |                              |  |

This course is activity-based and 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 architecture to web designing will be explored. Personal growth skills such as decision making, goal setting, and self-assessment will be addressed, as well.

## FAA Art II: Ceramics

022208

|                           |   |                             |  |
|---------------------------|---|-----------------------------|--|
| S                         | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12        |   | Credits: 0.5                |  |
| Prerequisites: Ceramics I |   |                             |  |
| Fee: \$15                 |   |                             |  |

Continue developing your skills as you are introduced to intermediate level techniques in handbuilding, wheel-throwing, and surface treatments. Begin thinking like an artist as you solve creative prompts according to your own interests and strategies as a ceramicist.

## FAA Art II: Drawing & Painting

022228

|                                      |   |                             |  |
|--------------------------------------|---|-----------------------------|--|
| S                                    | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12                   |   | Credits: 0.5                |  |
| Prerequisite: Drawing and Painting I |   |                             |  |
| Fee: \$10                            |   |                             |  |

This course explores the world of dry and wet pigments to create thematic and expressive works of art. Free yourself to choose your media and make a statement as you expand on your drawing skills by incorporating pastels, watercolors, and acrylic paint into your artwork.

## FAA Art II: Graphic Design/Illustration

021119

|                                             |   |   |                             |  |
|---------------------------------------------|---|---|-----------------------------|--|
| B                                           | S | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12                          |   |   | Credits: 0.5                |  |
| Prerequisite: Graphic Design/Illustration I |   |   |                             |  |
| Fee: \$5                                    |   |   |                             |  |

Students will expand on what they learned in the Level 1 Graphic Design/Illustration class, gaining further knowledge and skills using Adobe Illustrator. Students will develop work for specific audiences, study images as nonverbal communication, and solve design problems in order to create quality designs and illustrations relevant to different audiences. Articulated college credits may be earned through successful completion of both Level 1 and 2 course requirements.

## FAA Art II: Photography

022238

|                                                                                                 |          |          |                             |
|-------------------------------------------------------------------------------------------------|----------|----------|-----------------------------|
| <b>B</b>                                                                                        | <b>S</b> | <b>E</b> | Meets Requirement: Elective |
| Grades: 10, 11, 12                                                                              |          |          | Credits: 0.5                |
| Prerequisite: Photography I                                                                     |          |          |                             |
| Fee: \$5 and students will need a 32gb SD card, purchased on their own or from school for \$10. |          |          |                             |

Students will add to what they learned in the Level 1 Photography class, expanding their photography portfolio to include different genres, lighting, and Photoshop applications. Students will have the opportunity to learn basic functions of a DSLR camera. Articulated college credits may be earned through successful completion of both Level 1 and 2 course requirements.

## FAA Art II: Video Production

022218

|                                                                                        |          |                             |
|----------------------------------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                                               | <b>E</b> | Meets Requirement: Elective |
| Grades: 10, 11, 12                                                                     |          | Credits: 0.5                |
| Prerequisite: Video Production I                                                       |          |                             |
| Fee: Students will need a 32gb SD card, purchased on their own or from school for \$10 |          |                             |

Bring your creative vision to life! Students will learn and practice new film genres and video production techniques. Projects include Experimental, Stop Motion, Green Screen, the Final project is the student's personal vision.

Articulated college credits may be earned through successful completion of both Level 1 and 2 course requirements.

## FAA Art III: Ceramics

022308

|                            |          |                             |
|----------------------------|----------|-----------------------------|
| <b>S</b>                   | <b>E</b> | Meets Requirement: Elective |
| Grades: 11, 12             |          | Credits: 0.5                |
| Prerequisites: Ceramics II |          |                             |
| Fee: \$15                  |          |                             |

Apply your accumulated knowledge of ceramics to create artworks that make a statement. This course is for the driven ceramics student looking to find their own voice as an artist as they pursue ambitious, student driven projects throughout the term. Learn to photograph your finished works to create a digital portfolio, while learning advanced techniques in ceramic sculpture, wheel-throwing, and slip-casting.

## FAA Art III: Drawing & Painting

022338

|                              |          |                             |
|------------------------------|----------|-----------------------------|
| <b>S</b>                     | <b>E</b> | Meets Requirement: Elective |
| Grades: 11, 12               |          | Credits: 0.5                |
| Prerequisites: Paint/Draw II |          |                             |
| Fee: \$10                    |          |                             |

Apply your accumulated knowledge of drawing and painting to create artworks that make a statement. This course is for the driven student looking to find their own voice as an artist as they pursue ambitious, student driven projects throughout the term. Learn to photograph your finished works to create a digital portfolio while learning advanced techniques in book making, image transfer, print-making, and canvas building.

## FAA Art III: Media Arts

022358

|                                                                                          |          |                             |
|------------------------------------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                                                 | <b>E</b> | Meets Requirement: Elective |
| Grades: 11, 12                                                                           |          | Credits: 0.5                |
| Prerequisites: Level II Graphic Design/Illustration, Photography and/or Video Production |          |                             |
| Fee: \$10                                                                                |          |                             |

Media Arts encompasses a variety of art forms that use digital media and art technologies. This independent, advanced art class allows students to build on their Level 2 Graphic Design, Illustration, Photography, and/or Video Production knowledge and experiences. Students will dive deeper into a desired art form, developing their own voice and producing original work through individual study, group collaboration, and critique. Articulated college credits may be earned through successful completion of course requirements.

## FAA Art IV: Studio A/B

023351 / 023352

|                                                                                                                     |          |                             |
|---------------------------------------------------------------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                                                                            | <b>E</b> | Meets Requirement: Elective |
| Grades: 11, 12                                                                                                      |          | Credits: 0.5 / 0.5          |
| Prerequisites: Art I; Art II: Paint/Draw and Art III: Paint/Draw, or Art II: Photo/Graphics and Art III: Media Arts |          |                             |
| 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.

# 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  
Entrepreneurship  
MS Word & Keyboarding  
Occupational Mentorship  
Personal Finance  
Sports Officiating Fall  
Sports Officiating Winter  
Sports Officiating Spring  
Sports & Entertainment Marketing

## Courses Approved Not Offered:

TigerMFG: Operations 11 A/B/C  
TigerMFG: Operations 12 A/B/C  
Desktop Publishing

## 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 corporation. 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.

## BUS Accounting III

032208

|                                           |          |                             |
|-------------------------------------------|----------|-----------------------------|
| <b>B</b>                                  | <b>E</b> | 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. Students may receive technical and community college credit through articulation agreement.

## 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 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 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 MS Word & Keyboarding

035118

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

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 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 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 Sports Officiating Fall

036121

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

Would you like to stay involved with sports after you have finished playing? Do you want to provide a valuable service and get paid doing it? 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 with our district and for the MSHSL. Students will have the capabilities for real game experiences (shadowing and being shadowed in real athletic contests at the middle and elementary school levels) and observations. This course is offered with distinct content each trimester. Course for fall term will cover: **Football, Soccer, and Volleyball.**

## BUS Sports Officiating Spring

036123

|                         |    |   |                             |  |
|-------------------------|----|---|-----------------------------|--|
| B                       | HS | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12      |    |   | Credits: 0.5                |  |
| Prerequisite: None      |    |   |                             |  |
| Certification Available |    |   |                             |  |

Would you like to stay involved with sports after you have finished playing? Do you want to provide a valuable service and get paid doing it? 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 with our district and for the MSHSL. Students will have the capabilities for real game experiences (shadowing and being shadowed in real athletic contests at the middle and elementary school levels) and observations. This course is offered with distinct content each trimester. Course for spring term will cover: **Baseball, Lacrosse, and Softball.**

## BUS Sports Officiating Winter

036122

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

Would you like to stay involved with sports after you have finished playing? Do you want to provide a valuable service and get paid doing it? 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 with our district and for the MSHSL. Students will have the capabilities for real game experiences (shadowing and being shadowed in real athletic contests at the middle and elementary school levels) and observations. This course is offered with distinct content each trimester. Course for winter term will cover: **Basketball.**

# 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 career 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 activity-based and 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 architecture to web designing will be explored. Personal growth skills such as decision making, goal setting, and self-assessment 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 Communications (offered odd years only)  
Investigative / Research Composition  
Journalism Communications (offered even years only)  
Communications Literacy (offered odd years only)  
Mystery Genre  
Mythology Literature  
Science Fiction / Fantasy (offered odd years only)  
Speech Communications (offered even years only)  
Technical Composition  
World Literature (offered even years only)  
Yearbook  
Yearbook II  
Yearbook III

## 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: Communication is informational texts, writing, and communication skills based on the state standards. In this class, students will analyze the structure of informational texts, with summative assessments taking the form of a presentation and compositions. Writing conventions are practiced and include, but are not limited to, spelling, punctuation, capitalization and grammar. Additionally, students will write in a variety of styles including, but limited to, a nonfiction novel essay, memoir, and biography. Through writing, students will consider effective word choice before final drafts.

### ENG English 9: Literature

051112

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

Using literature state standards, with a thematic approach, students will read William Shakespeare's drama "Romeo and Juliet," a variety of modern and classic short stories, and a student choice novel.

### ENG English 10: Communications

051201

|                    |   |                               |  |
|--------------------|---|-------------------------------|--|
|                    | R | 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 (including graphic novel) 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 assessment will be done through literary and poetry analysis close reads. Vocabulary study will focus on ACT high frequency words, in addition to text-based and academic vocabulary.

## ENG Honors English 10A: Literature

052211

|                    |          |                               |  |
|--------------------|----------|-------------------------------|--|
|                    | <b>R</b> | 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 assessment will be done through literary and poetry close reads and a group presentation on context. 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 and discussion, as well as the amount of reading and writing.

## ENG Honors English 10B:

### Communications

052212

|                    |   |                               |  |
|--------------------|---|-------------------------------|--|
|                    | R | 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. 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 and discussion, as well as the amount of reading and writing.

## Elective Courses:

### ENG AP Literature and Composition A, B, C

053331 / 053332 / 053333

|                          |   |                                                        |
|--------------------------|---|--------------------------------------------------------|
|                          | E | Meets Requirement: Literature and Composition elective |
| Grades: 11, 12           |   | Credits: 0.75 / 0.75 / 0.50                            |
| Prerequisite: none       |   |                                                        |
| College Credit Available |   |                                                        |
| Fee: AP Exam             |   |                                                        |

AP English Literature and Composition is an introductory college-level literary analysis course focused on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students cultivate their understanding of literature as they explore concepts like character, setting, structure, theme, figurative language, and literary analysis in the context of literary works to deepen their understanding of the ways writers use language to provide both meaning and pleasure. Reading assignments include short excerpts studied in class as well as one longer novel or play per trimester. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This course is also designed to prepare students for the national examination in May.

## 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 trimester 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 summary 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

|                                                             |          |                             |
|-------------------------------------------------------------|----------|-----------------------------|
|                                                             | <b>E</b> | 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 second 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 what is considered "classic literature" from a variety of times and places. Students will read a Shakespearean play as well as a collection of short stories, a novel, and poetry. Students will learn about the classic elements: enduring, influential, innovative, universal and good writing. 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 Composition

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, synthesize, and organize this information through paraphrasing, quoting, and summarizing. For each composition, students will be expected to work 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, and grammatical/mechanical accuracy.

## 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 novel and a variety of short stories, view movies and compare them to the written forms, and write creatively.



## ENG Mythology Literature

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 ancient and modern mythologies will be analyzed in a respectful and strictly academic way. This will be accomplished using multiple methods of textual analysis. Ultimately, this is an anthropological study of what we can learn about a culture by evaluating their stories.

## ENG Technical Composition

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, professional and ethical communications, pamphlets, and job postings. The course stresses writing with accuracy, completeness, and purpose.

## ENG Yearbook

051121

|                       |   |                             |  |
|-----------------------|---|-----------------------------|--|
|                       | E | Meets Requirement: 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 and design and complete the spring supplement.

## ENG Yearbook II

051122

|                        |   |                             |  |
|------------------------|---|-----------------------------|--|
|                        | E | Meets Requirement: Elective |  |
| Grades: 11, 12         |   | Credits: 0.5                |  |
| Prerequisite: Yearbook |   |                             |  |

Yearbook II students will have greater responsibility in the production of the yearbook. They will effectively become managers, receiving Editor titles. Their duties will include working on their own assigned spreads, and shepherding Yearbook I students through the online yearbook editing program, as well as problem-solving when they can.

## ENG Yearbook III

051123

|                           |   |                             |  |
|---------------------------|---|-----------------------------|--|
|                           | E | Meets Requirement: Elective |  |
| Grades: 11, 12            |   | Credits: 0.5                |  |
| Prerequisite: Yearbook II |   |                             |  |

Yearbook III students will have greater responsibility in the production of the yearbook (as compared to Yearbook I and II students). They will report directly to the classroom teacher, and they will oversee Yearbook II editors and Yearbook I students. They, too, will be Editors, but their duties will be more refined as they continue to hone their managerial skills. Additionally, they will be in charge of the spring supplement, making all staff and design decisions, as well as yearbook distribution.

## **Elective Courses (Even Years Only):** **ENG Journalism Communications**

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 critical reading, ethics, law, format, interviewing, writing and editing. Students will identify their target audience, identify news relevant to that audience, gather information, and present that information effectively.

## **ENG Speech Communications**

051328

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

As an English elective course, Speech seeks to further develop “real-life” speaking skills. Whether you choose to go to college or enter the workforce after graduation, this course provides multiple opportunities for you to improve your communication skills. Units of study examine the individual speaker, the contents of a well-written speech, and the delivery process. More specifically, we explore interpersonal and intrapersonal communication, the art of debate, and the power of public speaking.

## **ENG World Literature**

051379

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

Students will read a novel (*A Man Called Ove* by Frederik Backman), as well as poetry and short stories written by world authors. The exception will be Native American short stories. Students will complete literary analysis formatives and summatives, and, time permitting, they will watch the US film version to compare and contrast.

## **Elective Courses (Odd Years Only):** **ENG Creative Communications**

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. This is an opportunity for students to be creative while learning figurative language and sound devices. The students will explore poetry, realistic fiction, adventure fiction, and science fiction as well as become authors of these genres.

## **ENG Contemporary Literature**

051385

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

Students will read a novel in verse (*Clap When You Land*, by *Elizabeth Acevedo*), which will allow us to study both prose and poetry. They will analyze the characters as well as literary elements, and will study poems and poetry that connect to the themes of the text, which include family history, nature v. nurture, socioeconomic effects, and shared values.

## **ENG Communications Literacy**

051375

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

Students will examine, interpret, and evaluate messages found in a variety of media, including advertisements, images, websites, and news articles. Students will learn and apply the “5 C’s of Critical Consuming.” Students will evaluate the speaker’s point of view. Students will learn how persuasive messages are constructed and how to critically evaluate them.

## 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  
Human Relations  
Foods I  
Foods II  
Homes & Interiors  
Independent Living  
Teen Issues  
Textiles & Design I  
Textiles & Design II  
World of Work I / II / III

## Courses Approved Not Offered:

Child Development III

## FCS Child Development I

061308

|                    |   |                             |  |
|--------------------|---|-----------------------------|--|
| HS                 | E | Meets Requirement: Elective |  |
| Grades: 10, 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. Students successfully completing Child Development I and II will be awarded credit by HHS and may receive advanced placement at participating technical and community colleges as determined by our articulation agreement.

## FCS Child Development II

062318

|                                                                |   |                             |  |
|----------------------------------------------------------------|---|-----------------------------|--|
| HS                                                             | E | Meets Requirement: Elective |  |
| Grades: 11, 12                                                 |   | Credits: 0.5                |  |
| Prerequisite: Child Development I                              |   |                             |  |
| Certification Available: Adult and Pediatric First Aid/CPR/AED |   |                             |  |

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. Students will need to provide their own transportation to schools and daycare centers for observations. Students successfully completing Child Development I and II will be awarded credit by HHS and may receive advanced placement at participating technical and community colleges as determined by our articulation agreement.

## FCS Human Relations

065338

|                          |   |                             |  |
|--------------------------|---|-----------------------------|--|
| HS                       | E | Meets Requirement: Elective |  |
| Grades: 11, 12           |   | Credits: 0.5                |  |
| Prerequisite: None       |   |                             |  |
| College Credit Available |   |                             |  |

Human Relations is a discussion based class designed to help students understand their own personal development. This course explores personal relationships and skills to help prepare you for your future family and career roles. The course also includes communication skills for building better relationships with parents, employers, teachers and peers. Help yourself to gain successful and positive relationship skills by taking an interest in your future now. 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 Guy Fieri? Gordon Ramsay? Rachel Ray? 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

|                       |   |                             |  |
|-----------------------|---|-----------------------------|--|
| S                     | E | 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

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

Adulting 101! It is so easy to take for granted the many needs that are met while living at home. Eventually, you want a place of your own and to 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

|                          |              |                             |
|--------------------------|--------------|-----------------------------|
| <b>HS</b>                | <b>E</b>     | 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 Human Relations 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 and measuring will be taught and practiced. Students will make pajama pants using printed, visual and verbal directions. For the major class project, students will design and sew a lap quilt.

## 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

|                                                  |                          |                             |
|--------------------------------------------------|--------------------------|-----------------------------|
| <b>HS</b>                                        | <b>E</b>                 | Meets Requirement: Elective |
| Grades: 11, 12                                   | Credits: 0.5 / 0.5 / 0.5 |                             |
| Prerequisite: WOW I, WOW II, WOW III progression |                          |                             |

World of Work 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.

WOW I = 3 weeks in class + 80 documented hours +1 weekly online assignment in subsequent 9 weeks.

WOW II = 120 document hours +1 online assignment per week.

WOW III = a work internship that aligns very closely with your planned career after graduation, hours and/or pay may vary

# 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  
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  
Unified DAPE

## Required Courses:

### HPE Aerobics I

071118

|                               |   |                            |
|-------------------------------|---|----------------------------|
|                               | R | 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; stress management techniques; social health; relationships; self-esteem; coping grief and loss. 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: HTTT 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 CPR/First Aid & Athletic Training

071158

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

In this health and wellness course, students gain a broad understanding of first aid emergencies, CPR, athletic training, and physical wellness. They will be equipped with the knowledge and skills to make informed decisions about their own health and well-being. The course aims to empower students to lead active and healthy lives while fostering a lifelong appreciation for the importance of overall wellness. In the first part of the course, students will learn essential skills to respond effectively to emergencies. They will discover basic first aid techniques and procedures, enabling them to handle common emergencies and provide immediate assistance when needed. The course also introduces students to the exciting world of athletic training. They will gain insights into the physical demands of different sports and learn about conditioning exercises, nutrition, and hydration. Within the athletic training unit, students will explore various taping techniques in order to treat and prevent injuries. They will also explore the importance of sports psychology, including visualization techniques and mental preparation, to boost their performance in sports and other areas of life. Students will be introduced to the profession of coaching through learning about philosophies and transformation coaching versus transactional coaching.

## HPE Lifeguard Training

071168

|                                                                                                    |              |                             |
|----------------------------------------------------------------------------------------------------|--------------|-----------------------------|
|                                                                                                    | E            | Meets Requirement: Elective |
| Grades: 9, 10, 11, 12                                                                              | Credits: 0.5 |                             |
| Prerequisite: Students will need to pass the prerequisite skills tests on the second day of class. |              |                             |
| 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 interested in receiving the Lifeguard/First Aid/CPR/AED certification will need to pay the \$41 Red Cross Fee.

## 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 with 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.

## HPE Unified Dape

318004

|                                                         |   |                             |  |
|---------------------------------------------------------|---|-----------------------------|--|
| HS                                                      | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                                   |   | Credits: 0.5                |  |
| Prerequisite: special permission needed - see counselor |   |                             |  |

This course pairs students with physical or developmental disabilities with their general education peers to create an environment of collaboration, cohesion, and fun! Students will learn how to demonstrate competencies in a variety of motor skills and movement patterns. Students will learn how to apply knowledge of concepts, principals, strategies, and tactics related to movement and performance. Students will learn to demonstrate the knowledge and skill to achieve and maintain a health-enhancing level of physical activity and fitness. Students will learn how to exhibit responsible personal and social behaviors that respect self and others. Students will recognize the value of physical activity for health, enjoyment, challenge, self-expression, and/or social interaction.

# Mathematics & Computer Science

9th Grade students may enter HHS having completed MAT Intermediate Algebra 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

Algebra II A  
Algebra II B

## Grade 11

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

## Grade 12

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

## Mathematics Courses Offered:

Algebra II A  
Algebra II B  
Statistics  
AP Calculus A/B  
AP Statistics A/B  
CIS College Algebra A/B (SMSU)  
Geometry A  
Geometry B  
Intermediate Algebra  
Introduction to College Math  
Logic  
Pre-Calculus A/B

## Computer Science Courses Offered:

AP Computer Science: Java A/B  
AP Computer Science Principles  
CIS Computer Science Principles A/B (SMSU)  
Computer Science: Java A/B  
Introduction to Computer Science  
Mobile Computer Science Principles

## Mathematics Courses:

### MAT Algebra II A

081201

|                                        |          |                                     |  |
|----------------------------------------|----------|-------------------------------------|--|
|                                        | <b>R</b> | Meets Requirement: Advanced Algebra |  |
| Grades: 10, 11, 12                     |          | Credits: 0.5                        |  |
| Prerequisite: MAT Intermediate Algebra |          |                                     |  |

MAT Algebra II A is an extension of the Algebra A (Middle School) and MAT Intermediate Algebra (Middle School / High School) courses. Many of the topics of MAT Algebra II A are studied in greater depth in this course. Additional topics covered are: Linear programming systems of equations and inequalities; parent functions; piecewise functions; and properties of polynomial functions.

### MAT Algebra II B

081202

|                                |   |                                     |  |
|--------------------------------|---|-------------------------------------|--|
|                                | R | Meets Requirement: Advanced Algebra |  |
| Grades: 10, 11, 12             |   | Credits: 0.5                        |  |
| Prerequisite: MAT Algebra II A |   |                                     |  |

MAT Algebra II B is a continuation of MAT Algebra II A and is an extension of the MAT Intermediate Algebra course. Students are expected to have a working knowledge of MAT Algebra II A concepts. Some additional topics covered are: arithmetic and geometric sequences; polynomials and polynomial equations; exponential and logarithmic functions; conic sections; and rational functions.

### 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.

## MAT Statistics

083342

|                    |   |                               |  |
|--------------------|---|-------------------------------|--|
|                    | E | Meets Requirement: Statistics |  |
| Grades: 10, 11, 12 |   | Credits: 0.5                  |  |
| Prerequisite: None |   |                               |  |

This course will cover the basics of statistics including exploring one and two variable data sets, data collection, sampling distributions and inference procedures.

## MAT AP Statistics A/B

083301 / 083302

|                                                            |   |                               |
|------------------------------------------------------------|---|-------------------------------|
|                                                            | E | Meets Requirement: Statistics |
| Grades: 10, 11, 12                                         |   | Credits: 0.75 / 0.75          |
| Prerequisite: MAT Algebra II 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

|                                                                 |   |                             |  |
|-----------------------------------------------------------------|---|-----------------------------|--|
|                                                                 | E | 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.

## MAT Introduction to College Math

081411

|                    |   |                             |  |
|--------------------|---|-----------------------------|--|
|                    | E | 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 to 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

|                                        |   |                             |  |
|----------------------------------------|---|-----------------------------|--|
|                                        | R | Meets Requirement: Geometry |  |
| Grades: 9, 10, 11, 12                  |   | Credits: 0.5                |  |
| Prerequisite: MAT Intermediate Algebra |   |                             |  |

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

|                          |   |                             |  |
|--------------------------|---|-----------------------------|--|
|                          | R | Meets Requirement: Geometry |  |
| Grades: 9, 10, 11, 12    |   | Credits: 0.5                |  |
| Prerequisite: Geometry A |   |                             |  |

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

081118

|                    |   |                            |  |
|--------------------|---|----------------------------|--|
|                    | E | Meets Requirement: Algebra |  |
| Grades: 9          |   | Credits: 0.5               |  |
| Prerequisite: None |   |                            |  |

MAT Intermediate Algebra is a continuation of Algebra A (Middle School course). Students are expected to have a good understanding of all of the concepts learned in Algebra A before taking this class. Topics covered include: solving systems; polynomials; exponent rules; and factoring. Students who are in grade 8 at Hutchinson Middle School who complete MAT Intermediate Algebra standards and receive a passing grade will receive .50 HS math credit. Students may retake this course in the High School if not satisfied with their grade/progress in the course.

## 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 Pre-Calculus A/B

081311 / 081312

|                                |   |                             |  |
|--------------------------------|---|-----------------------------|--|
|                                | E | Meets Requirement: Elective |  |
| Grades: 11, 12                 |   | Credits: 0.5 / 0.5          |  |
| Prerequisite: MAT Algebra II B |   |                             |  |

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 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 Grade 11 and Pre-Calculus B during Tri 1 of Grade 12.

## Computer Science Courses:

### MAT Introduction to Computer Science

081131

|                                                                 |   |                             |  |
|-----------------------------------------------------------------|---|-----------------------------|--|
|                                                                 | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                                           |   | Credits: 0.5                |  |
| Prerequisite: Geometry A/B (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 Computer Science: Java A/B

081181 / 081182

|                                                   |   |                             |  |
|---------------------------------------------------|---|-----------------------------|--|
| S                                                 | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                             |   | Credits: 0.5 / 0.5          |  |
| Prerequisite: Intro to Computer Science preferred |   |                             |  |

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 Computer Science A: Java A/B

083161 / 083162

|                                                   |   |                             |  |
|---------------------------------------------------|---|-----------------------------|--|
| S                                                 | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                             |   | Credits: 0.75 / 0.75        |  |
| Prerequisite: Intro to Computer Science preferred |   |                             |  |
| Fee: AP Exam                                      |   |                             |  |

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 Intro to Computer Science Principles

081141

|                                                                 |   |                             |  |
|-----------------------------------------------------------------|---|-----------------------------|--|
| S                                                               | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                                           |   | Credits: 0.5                |  |
| Prerequisite: Geometry A/B (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. This course is a computer information class with a small amount of block based programming.

### MAT AP Computer Science Principles

083152

|                                                    |   |                             |  |
|----------------------------------------------------|---|-----------------------------|--|
| S                                                  | E | Meets Requirement: Elective |  |
| Grades: 9, 10, 11, 12                              |   | Credits: 0.75               |  |
| Prerequisite: Intro to Computer Science Principles |   |                             |  |
| 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 Essentials of Computer Science.

### MAT CIS Essentials of Computer Science

084172

|                                                    |   |                             |  |
|----------------------------------------------------|---|-----------------------------|--|
| S                                                  | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12                                 |   | Credits: 0.75               |  |
| Prerequisite: Intro to Computer Science Principles |   |                             |  |
| College Credit Available                           |   |                             |  |

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 Computer Science Principles.



# 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 |   |                             |  |

Concert Band rehearses one period every school day. During Concert Band, we will practice good rehearsal techniques to further the musical education for all students. The playing of solos and ensembles is encouraged. Concert Band has the opportunity to combine with members of Wind Ensemble and Symphonic Band to form the Marching Band. Private and group lessons are available and encouraged both during and outside of the school day. 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 Concert Band and Varsity Singers. For more description details please see "Concert Band" and "Varsity Singers" 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. Private and group lessons are available and encouraged both during and outside of the school day. 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 Wind Ensemble 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 Singers 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 Concert Band.

# Science

## Science Requirements:

### 1.0 credit in Grade 9 from:

Earth Science: Geology, and  
Earth Science: Astronomy/Meteorology

### 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  
Natural Chemistry, or  
Natural Physics

## Courses Offered:

Anatomy & Physiology I  
Anatomy & Physiology II  
AP Biology A/B/C  
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  
AP Chemistry A/B  
Earth Science: Astronomy/Meteorology  
Earth Science: Geology  
Ecology  
Forensic Science  
Natural Chemistry  
Natural Physics  
Physics A/B  
Sport Science

## Courses Approved Not Offered:

AP Environmental Science A/B  
Geology  
CIS Chemistry A/B (SMSU)

## 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 recommended for students anticipating attending a four-year college (science field related). A strong math background is suggested.

## SCI Earth Science: Astronomy/Meteorology

101158

|                    |   |                                    |
|--------------------|---|------------------------------------|
| S                  | R | Meets Requirement: Earth Science 9 |
| Grades: 9          |   | Credits: 0.5                       |
| Prerequisite: None |   |                                    |

Earth Science: Astronomy and Meteorology is a course designed to help students understand the basic concepts of Astronomy/Meteorology. Topics of study include: planetary motion, life cycle of stars, Earth's atmosphere, pressure and weather systems, severe weather, and weather forecasting.

## SCI Earth Science: Geology

101148

|                    |   |                                    |
|--------------------|---|------------------------------------|
| S                  | R | Meets Requirement: Earth Science 9 |
| Grades: 9          |   | Credits: 0.5                       |
| Prerequisite: None |   |                                    |

Earth Science: Geology is a course designed to help students understand the basic concepts in Geology. Topics of study include: Structure of the Earth and Earth's composition, plate tectonics, continental drift, volcanology, earth's structure development, mineral and rock classification and production.

## 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. Physics is recommended for students anticipating attending a four-year college. A strong math background is suggested.

## Elective Courses:

### 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 I |   |                             |

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 AP Biology A/B/C

103221 / 103222 / 103223

|                          |          |                             |
|--------------------------|----------|-----------------------------|
| <b>SH</b>                | <b>E</b> | 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 Physics A/B

103281 / 103282

|                                                                      |          |                            |
|----------------------------------------------------------------------|----------|----------------------------|
| <b>S</b>                                                             | <b>E</b> | Meets Requirement Elective |
| Grades: 10, 11, 12                                                   |          | Credits: 0.75 / 0.75       |
| Prerequisite: Geometry A/B; completion of Physics A/B is recommended |          |                            |
| 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

|                    |          |                             |
|--------------------|----------|-----------------------------|
| <b>S</b>           | <b>E</b> | 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

|                    |          |                             |
|--------------------|----------|-----------------------------|
| <b>SH</b>          | <b>E</b> | 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.

## AP Chemistry A/B

103291 / 103292

|                                                                |          |                             |
|----------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                       | <b>E</b> | Meets Requirement: Elective |
| Grades: 11, 12                                                 |          | Credits: 0.75 / 0.75        |
| Prerequisite: None; completion of Chemistry A/B is recommended |          |                             |
| College Credit Available                                       |          |                             |
| Fee: AP Exam                                                   |          |                             |

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

## 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. Students 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 is the study of interactions between living (biotic) and nonliving (abiotic) environments. Fieldtrip opportunities and the ecology site will be used for a variety of projects, build naturalist skills, make observations, and identify species. Class units focus on biochemical nutrient cycling, as well as terrestrial, freshwater, and marine ecosystems with the connection to human impacts.

## SCI Forensic Science

101248

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

This course will apply your general science background. We will practice 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 Natural Chemistry

101311

|                    |   |                              |  |
|--------------------|---|------------------------------|--|
| SH                 | E | Meets Requirement: Chemistry |  |
| Grades: 11, 12     |   | Credits: 0.5                 |  |
| Prerequisite: None |   |                              |  |

An inquiry-based course that introduces basic chemistry concepts. This course is laboratory focused and meets the graduation requirement for Chemistry. Consult with a counselor prior to taking Natural Chemistry in lieu of Chemistry A/B.

## SCI Natural Physics

101312

|                    |   |                            |  |
|--------------------|---|----------------------------|--|
| S                  | E | Meets Requirement: Physics |  |
| 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. Consult with a counselor prior to taking Natural Physics in lieu of Physics A/B.



## SCI Sport Science

101258

|                    |   |                             |
|--------------------|---|-----------------------------|
| SH                 | E | 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. The course will engage students in understanding the biomechanics of sports movements, characteristics of a 'complete athlete' and the importance of sports psychology and ethics in sports. 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, or  
AP U.S. History C  
and  
Economics, or  
AP American Government B

## Required Courses: Grade 12

Geography, or  
AP Human Geography A, or  
and  
World History, or  
AP Human Geography B, or  
CIS College World History (SCSU)

## 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  
Sociology  
Digital Communication and Web Design

## 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 <del>9 or</del> 10, and American Government when taken in 10th grade |  |
| Grades: 10, 11, 12         |   | Credits: 0.75 / 0.75 / 0.5                                                                           |  |
| Prerequisite: US History 9 |   |                                                                                                      |  |
| 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 CIS College World History

114378

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

Students enrolled in the CIS College World History course through SCSU will have the opportunity to earn high school and college credit while at the high school. This class is a survey of world civilizations from 1500-present. The main focus is on trying to understand how our present society developed within the context of history.

## SOC Economics

111311

|                    |    |   |                              |  |
|--------------------|----|---|------------------------------|--|
| B                  | HS | R | 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; demonstrate an understanding of consumer economics; and identify and analyze events and issues and their impact on the economy.

## 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. Topics covered will include demography, geopolitical discussions, urban geography, and agriculture and economic development. 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.

## 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 Bubonic Plague and the Renaissance working through to contemporary democracies. This course provides students the opportunity to practice historical thinking skills while exploring topics such as 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.

## 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               |  |
| 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: Must meet SCSU requirements |   |                             |  |
| 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 constitute the core of the study of psychology. This course will give students the knowledge to better understand themselves, their lives and their communities.

## 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.

## SOC Digital Communication and Web Design

031298

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

Communication is one of the foundational elements of a good website. This course will help you become an effective communicator using internet tools to develop attractive, practical and functional web pages. Students will develop key digital communication skills and gain a foundational knowledge of website creation. By the end of this course, students will be comfortable creating, coding, and posting basic HTML and CSS files to the Internet.

# Technical Education

## Courses Offered:

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

## TECH 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.

## TECH Architectural Drafting II

132208

|                                        |          |                             |
|----------------------------------------|----------|-----------------------------|
| <b>S</b>                               | <b>E</b> | Meets Requirement: Elective |
| Grades: 10, 11, 12                     |          | Credits: 0.5                |
| Prerequisite: Architectural Drafting I |          |                             |

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.

## TECH 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.



## TECH Drafting I

131118

|                       |          |                             |
|-----------------------|----------|-----------------------------|
| <b>S</b>              | <b>E</b> | 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.

## TECH Drafting II

135215

|                          |          |                             |
|--------------------------|----------|-----------------------------|
| <b>S</b>                 | <b>E</b> | 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 CADD software. 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.

## TECH Drafting III

132218

|                                                     |          |                             |
|-----------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                            | <b>E</b> | 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.

## TECH Electricity & Electronics

135228

|                    |          |                             |
|--------------------|----------|-----------------------------|
| <b>S</b>           | <b>E</b> | 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.

## TECH Know Your Car

131238

|                    |          |                             |
|--------------------|----------|-----------------------------|
| <b>S</b>           | <b>E</b> | 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, current insurance AND a valid driver's license to enroll.

## TECH Machine Tool Operations I

135248

|                          |          |                             |
|--------------------------|----------|-----------------------------|
| <b>S</b>                 | <b>E</b> | 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, 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.

## TECH Machine Tool Operations II

135308

|                                                              |   |                             |  |
|--------------------------------------------------------------|---|-----------------------------|--|
| S                                                            | E | Meets Requirement: Elective |  |
| Grades: 11, 12                                               |   | Credits: 0.5                |  |
| Prerequisite: Machine Tool Operation I w/grade "C" or better |   |                             |  |
| College Credit Available                                     |   |                             |  |

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 multiple projects. 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.

## TECH Machine Tool Operations III

135318

|                                                                  |   |                             |  |
|------------------------------------------------------------------|---|-----------------------------|--|
| S                                                                | E | Meets Requirement: Elective |  |
| Grades: 11, 12                                                   |   | Credits: 0.5                |  |
| Prerequisite: Machine Tool Operation I, II w/grade "C" or better |   |                             |  |
| College Credit Available                                         |   |                             |  |
| Fee: Based on Final Project                                      |   |                             |  |

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.

## TECH Small Gas Engines

131258

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

This course is intended to give students the opportunity to learn about small gas engines and their recreational applications. The focus will be on understanding how small gas engines operate and their components by disassembling and servicing different small gas engines. Students will gain an understanding of service, maintenance and diagnostics for a variety of different outdoor equipment and powersports. Students will also participate in the Polaris Service Technician Development program. This three-tier program will give our students access to Polaris' online technical training content via The University of Polaris and allows students to complete approximately 80% of the required training to be a service technician at a Polaris Dealer.

## TECH 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.

## TECH 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.

## TECH Residential Construction C

132323

|                                              |          |                             |
|----------------------------------------------|----------|-----------------------------|
| <b>S</b>                                     | <b>E</b> | 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.

## TECH Robotics

135268

|                          |          |                             |
|--------------------------|----------|-----------------------------|
| <b>S</b>                 | <b>E</b> | 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 mechatronics, mechanical design, engineering, electronics, programming, or robotics design. Students meeting the necessary benchmarks may earn articulated college credit.

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

132331 / 132332 / 132333

|                                                                                                              |          |                             |
|--------------------------------------------------------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                                                                     | <b>E</b> | 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

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

132401 / 132402 / 132403

|                                                                                                              |          |                             |
|--------------------------------------------------------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                                                                     | <b>E</b> | 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

## TECH Welding I

131128

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

This course is intended to give students introductory knowledge and skills in metalworking and educate them on the manufacturing industry. Students will create a sheet metal project and be exposed to the Shielded Metal Arc Welding (SMAW) and Gas Metal Arc Welding (GMAW) processes. This course will include safety, material identification, measuring, cutting and forming metals. The goal of this course is for students to gain aptitude in basic metal fabrication and welding procedures.

## TECH Welding II

132278

|                                                              |          |                             |
|--------------------------------------------------------------|----------|-----------------------------|
| <b>S</b>                                                     | <b>E</b> | Meets Requirement: Elective |
| Grades: 10, 11, 12                                           |          | Credits: 0.5                |
| Prerequisite: Welding I with a grade "C" or better           |          |                             |
| College Credit Available                                     |          |                             |
| Fee: \$25 + additions based on student-identified project(s) |          |                             |

This course is intended to introduce students into advanced welding techniques and procedures. Students will learn techniques on how to weld out-of-position and will be introduced to the Gas Tungsten Arc Welding (GTAW) process or TIG welding. Students will become proficient in safe welding practices, material identification and be introduced to the manufacturing process. Students will gain experience using industry standard equipment such as CNC plasma cutters and hydraulic press brakes. The goal of this course is for students to develop professional skills in fabrication and welding.

## TECH Welding III

132368

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

This course is intended to enhance students' abilities in advanced welding techniques and procedures. Students will become proficient in welding materials such as aluminum and stainless steel. Students will learn how to maintain and service equipment. Students will also be introduced to non-destructive weld testing. The goal of this course is for students to apply their skills in metalworking to build a culminating project of their choice.

## TECH Welding IV

132378

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

This course is intended to have students apply the skills they have learned throughout the first three welding courses to be able to produce high quality welds and manufacture projects using different materials. Students will become proficient in safe welding practices, material identification and equipment maintenance. The goal of this course is for students to apply their skills in metalworking using a variety of different metals and welding processes. Students will also participate in the Hutchinson Sculpture Stroll sponsored by the Hutchinson Public Arts Commission. Students will design, create and submit their work for consideration to be a part of the city wide sculpture stroll. Students will also have the opportunity to build an individual culminating project.

## TECH 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 several joinery exercises, a sliding lid box, and a final chosen 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.

## TECH Woodworking II: Cabinetmaking

132285

|                                                          |   |                             |  |
|----------------------------------------------------------|---|-----------------------------|--|
| S                                                        | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12                                       |   | Credits: 0.5                |  |
| Prerequisite: Woodworking I with a grade "C" or better   |   |                             |  |
| 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 classes. 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.

## TECH Woodworking III: Advanced

132288

|                                                            |   |                             |  |
|------------------------------------------------------------|---|-----------------------------|--|
| S                                                          | E | Meets Requirement: Elective |  |
| Grades: 10, 11, 12                                         |   | Credits: 0.5                |  |
| Prerequisite: Woodworking I, II with a grade "C" or better |   |                             |  |
| 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  
German III A/B  
German IV A/B  
Spanish I A/B  
Spanish II A/B  
Spanish III A/B  
CIS College Spanish IV A/B (SMSU)

## Courses Approved Not Offered:

CIS College German III A/B (SCSU)  
CIS College German IV A/B (SCSU)  
Introduction to German Culture  
CIS Introduction to German Culture (SCSU)

## 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 German III A/B

144301 / 144302

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

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.

## WLD German IV A/B

144401 / 144402

|                                 |   |                             |  |
|---------------------------------|---|-----------------------------|--|
| T                               | E | Meets Requirement: Elective |  |
| Grades: 12                      |   | Credits: 0.5 / 0.5          |  |
| Prerequisite: German I, II, III |   |                             |  |

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 the culture of countries where language is spoken.

## 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 the 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.