CLASS DESCRIPTION BOOKLET

2017-2018

PINE ISLAND HIGH SCHOOL

INDEX

REGISTRATION INFORMATION

COURSES

COURSE FEES

Horticulture – Fall, Horticulture - Spring	$10.00
Exploring Technologies, Painting I & II	$15.00
ProStart I, II & III, Sculpture, Ceramics I & II	$20.00
Auto Mechanics, Metals I & II, Power & Energy, Timber Manufacturing I	$25.00
Timber Manufacturing II	$50.00
MN Wildlife - Fall	$70.00

PINE ISLAND HIGH SCHOOL
2017-2018

The Registration Handbook for the 2017-2018 academic year serves as a guide for students, parents/guardians and staff members in developing an individualized, customized learning program for each student at Pine Island High School. The current available coursework will serve as a solid foundation for future schedules.

In preparing for the 2017-2018 schedule, each student needs to keep in mind that each school year is part of the larger four-year high school plan. Each student needs to formulate personal goals in order to develop the most appropriate academic schedule for future success. The Pine Island Counseling Department and school staff are available to support and advise each student in the registration process, and we highly encourage parents and/or guardians to be highly involved in the course selection and planning process.

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

STUDENT SCHEDULE CORRECTION GUIDELINES

Schedule changes will only be considered through the first 3 days of the semester. All requests for corrections require parent approval, and forms are available in this registration guide and the high school office.

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

Student schedule corrections are made for the following reasons:

a) Student has not yet satisfied the prerequisite necessary for the course
b) Student has already taken and passed this course
c) Student has a study hall and would prefer a class
d) Student does not have a study hall and would prefer one
e) Student needs to replace and elective with a required class (senior only)
f) Error on schedule
g) Student wants to take an AP, PLTW or SMSU class (must meet criteria for course and be a senior).

Schedule corrections that are not approved include:

a) Request for a specific teacher
b) Request to move a class to have a study hall during a certain period
c) Request to move a class to accommodate sports, work or extracurricular activities

Petition for Schedule Change

Directions: Fill out this form and bring it with you when you meet with your counselor

Schedule changes will only be considered through the first 3 days of the semester
Absolutely no changes after this date
Student must meet with teacher & obtain signature before meeting with counselor

Period of course being petitioned for change: 1 2 3 4 5 6 7 8
(You will only be seen during the hour indicated)

Semester 1 Semester 2
Date:_____

Student Name:_____

Please check reason for course change request:

- ❒ I have not yet satisfied the prerequisite necessary for this course
- ❒ I have already taken and passed this course
- ❒ I have a study hall and would prefer a class
- ❒ I do not have a study hall and would prefer one (remember that study halls do not count for credit)
- ❒ I need to replace an elective with a required class (seniors only)
- ❒ I have a blank in my schedule/have too many classes/have 2 classes during same hour
- ❒ I want to take an AP, PLTW or SMSU class (must meet criteria for course and be a senior)

_____ _____
Teacher signature Date

_____ _____
Counselor signature Date

_____ _____
Parent signature Date

Office use only:

- ❒ Book/materials returned
- ❒ Teacher notified

❒ Approved ❒ Denied

TECHNOLOGY IN THE CLASSROOM

The implementation of technology at PIHS is allowing teachers to make exciting changes in the classroom. Terminology like "blended or hybrid class" and "flipped classroom," are becoming more common place at PIHS. While the syllabus for each class will explain in greater detail how a given class operates we thought it might be helpful to provide a brief description of what some of these terms mean, as you will very likely encounter at least one of them, or something like them, on your student's syllabi at some point in his/her high school career.

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

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

The classroom experience and learning environments at PIHS will continue to advance and evolve, and if you have questions or concerns, after reading the course syllabus we encourage you to start the conversation with your student and his/her teacher. You can similarly speak with the School Counselor or the High School Principal.

PINE ISLAND HIGH SCHOOL GRADUATION REQUIREMENTS

In order to earn a diploma from Pine Island High School, students must earn 26 credits in the areas listed below:

- English/Language Arts - four years (4 credits)
- Mathematics – three and a half years (3.5 credits) including Intermediate Algebra, Geometry, Advanced Algebra and Probability and Statistics
- Science – three years (3 credits) including Physical Science, Biology, Chemistry or Physics
- Social Studies – three and a half years (3.5 credits) including U.S. History, World History, Government, Geography and Economics
- College and Career Readiness – two courses (1.0 credits) **For Class of 2020+
- College and Career Readiness (Careers) – one course (.5 credit) **For Class of 2017, 2018, 2019
- Computer Applications – one course (.5 credit) **For Class of 2017, 2018 and 2019
- Health – one course (.5 credit)
- Physical Education – two courses (1 credits)
- Fine Arts – two courses (1 credits)
- Electives – 8.5 credits

PIHS Courses That Fulfill the Fine Arts Graduation Requirement

1. All Art Department Courses
   - Art 1
   - Ceramics 1, Ceramics II
   - Digital Photography
   - Drawing and Design, Drawing II
   - Graphic Design and Animation
   - Introduction to Visual Arts
   - Painting I, Painting II
   - Sculpture
2. All Music Department Courses
   - Cantate
   - Concert Band
   - Concert Choir
   - Sinfonia Orchestra
   - Symphony Orchestra
   - Wind Ensemble

GENERAL RECOMMENDATIONS

1. Students considering college for fields of technology are encouraged to take advanced classes up through Analytic Geometry, Trigonometry, and Calculus. Students must satisfy the prerequisites for these courses by taking Geometry and Advanced Algebra. The University of Minnesota requires students seeking admission fall 2015 and thereafter to take 4 years of math, including 2 years of Algebra and 1 year of Geometry

2. Chemistry is recommended for the various health fields, agriculture, advanced study, as well as for college. Chemistry and Physics are required for acceptance into the University of Minnesota engineering programs. Note: Class of 2015 and beyond are required to take chemistry or physics to meet graduation requirements.

3. Industrial arts, family life sciences, and agriculture classes are open to all students. Some advanced classes may require that you have taken a prerequisite class first.

4. All students in grades 9-12 will be required to take at least seven (7) credits unless special arrangements are approved through the High School Principal.

5. Students may earn .25 credit by working for a teacher or administrative assistant an hour per day for the semester. They will be graded as pass or fail. This must be approved by the Counselor or High School Principal. See course requirements for Teacher Aide.

6. Students are encouraged to take at least 2 years of foreign language. Many 4 year colleges require 2 years of a foreign language for graduation or as an entrance requirement.

COURSE SELECTION GUIDELINES

All students in grades 9-12 will be required to take at least seven credits (7). However, college admission requirements often exceed Pine Island High School minimum graduation requirements. While we strongly advise all PIHS students to pursue a rigorous, college preparatory course of study, there are some considerations worth noting, depending upon a student's postsecondary aspirations.

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

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

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

High School Course Requirements for College Admission

Department	Years Required	Course Options
English	4	English 9-12, Intro to Lit, English College Prep, Media and Production, Humanities, The Film Experience
Mathematics	4	Intermediate Algebra, Advanced Algebra, Geometry, Analytic Geometry, Trigonometry, College Math, AP Statistics, Probability and Statistics, Calculus
Social Studies	4	U.S. History, A.P. U.S. History, A.P. Geography, Human Geography, Global Studies, Economics and Environment, Government, World History
Science	4	Physical Science, Biology, Chemistry, Chemistry in the Community, Physics
World Languages	2-4	Spanish
Fine Arts	1	Art Music
College-prep Electives from Various Departments	1-2	Principles of Biomedical Science, Human Body Systems, Constitutional Issues, Attitude Awareness, Sociology, Psychology, Essentials of Speaking and Listening, IED, POE, CIM,
Electives with a Career and Technical Focus from Various Departments		Agriscience Studies, Business, Technology and Engineering, Family and Consumer Sciences

Graduation Requirements

26 Credits Required for Graduation

To graduate from PIHS students must successfully complete a minimum of 26 credits in courses listed in this registration guide or approved by administration. 17.5 credits must be specified course areas with the remaining credits composed of electives chosen by each student. In addition to these course requirements, the students must meet any other state testing mandate as approved by the Minnesota Department of Education.

Student Name:	**Graduation Year**: **2017-2019**	
Courses	**Credit**	**Completed**
Fine Arts	.5	
Fine Arts	.5	
English 9A	.5	
English 9B	.5	
English 10A	.5	
English 10B	.5	
English 11A	.5	
English 11B	.5	
English 12A	.5	
English Elective	.5	
Intermediate Algebra A	.5	
Intermediate Algebra B	.5	
Geometry A	.5	
Geometry B	.5	
Advanced Algebra A	.5	
Advanced Algebra B	.5	
Probability & Statistics	.5	
PE 9	.5	
PE 10 or PE II	.5	
Health	.5	
Physical Science 9A	.5	
Physical Science 9B	.5	
Biology A	.5	
Biology B	.5	
Chemistry, Physics, or Chemistry in the Community A	.5	
Chemistry, Physics, or Chemistry in the Community B	.5	
U.S. History 9A	.5	
U.S. History 9B	.5	
World History 10A	.5	
World History 10B	.5	
Government & Citizenship	.5	
Economics & Environment	.5	
World/Cultural or Physical/Regional Geography	.5	
College and Career Readiness I	.5	
Personal Computer Applications	.5	
Total Credits Earned in the required courses listed above	**17.5**	
Elective Credits Earned - Grade 9		Total:
Elective Credits Earned - Grade 10		Total:
Elective Credits Earned - Grade 11		Total:
Elective Credits Earned - Grade 12		Total:
Credits Earned in required courses and elective courses	**Grand Total:**	

*Note: For yearlong courses "A" equals first semester and "B" equals second semester

Graduation Requirements

26 Credits Required for Graduation

To graduate from PIHS students must successfully complete a minimum of 26 credits in courses listed in this registration guide or approved by administration. 17.5 credits must be specified course areas with the remaining credits composed of electives chosen by each student. In addition to these course requirements, the students must meet any other state testing mandate as approved by the Minnesota Department of Education.

Student Name:	**Graduation Year**: **2020 & Beyond**	
Courses	**Credit**	**Completed**
Fine Arts	.5	
Fine Arts	.5	
English 9A	.5	
English 9B	.5	
English 10A	.5	
English 10B	.5	
English 11A	.5	
English 11B	.5	
English 12A	.5	
English Elective	.5	
Intermediate Algebra A	.5	
Intermediate Algebra B	.5	
Geometry A	.5	
Geometry B	.5	
Advanced Algebra A	.5	
Advanced Algebra B	.5	
Probability & Statistics	.5	
PE I	.5	
PE II	.5	
Health	.5	
Physical Science 9A	.5	
Physical Science 9B	.5	
Biology A	.5	
Biology B	.5	
Chemistry, Physics, or Chemistry in the Community A	.5	
Chemistry, Physics, or Chemistry in the Community B	.5	
U.S. History 9A	.5	
U.S. History 9B	.5	
World History 10A	.5	
World History 10B	.5	
Government & Citizenship	.5	
Economics & Environment	.5	
World/Cultural or Physical/Regional Geography	.5	
College and Career Readiness I	.5	
College and Career Readiness II	.5	
Total Credits Earned in the required courses listed above	**17.5**	
Elective Credits Earned - Grade 9		Total:
Elective Credits Earned - Grade 10		Total:
Elective Credits Earned - Grade 11		Total:
Elective Credits Earned - Grade 12		Total:
Credits Earned in required courses and elective courses	**Grand Total:**	

*Note: For yearlong courses "A" equals first semester and "B" equals second semester.

COLLEGE CREDIT AT PINE ISLAND HIGH SCHOOL

Advanced Placement (AP)	Concurrent Enrollment (College Now)	Postsecondary Enrollment Options (PSEO)	Project Lead the Way (PLTW)
What is it?			
Advanced Placement offers college level courses in subjects such as English, Science, History, Math, and languages. Classes are taken at the high school and are all year-long.	Concurrent Enrollment allows students to take college-level courses at their high school through partnerships between high schools and local colleges and universities.	Postsecondary Enrollment Options allow highly motivated students to take college courses at a college. Students attend class and complete the same assignments required of regular college students.	Universities and Colleges throughout Minnesota offer college credit recognition to students who complete PLTW courses.
What are the benefits?			
• Students may earn both high school and college credit. This can save time and money. • The course work is college-level. You may do better in college classes later because you'll know what to expect. • You take college- level courses in your high school. This gives you a taste of college within the safety of your high school walls.	• Students may earn both high school and college credit. This can save time and money. • The course work is college-level. You may do better in college classes later because you'll know what to expect. • You take college-level courses in your high school. This gives you a taste of college within the safety of your high school walls.	• Students may earn both high school and college credit. This can save time and money. • The course work is college-level. You may do better in college classes later because you'll know what to expect. • You take college-level courses on a college campus. You may interact with college students from around the state and country. • Explore more subjects and advanced work in PSEO.	• Students may earn both high school and college credit. This can save you time and money. • The course work is college-level. You may do better in college classes later because you'll know what to expect. • You take college- level courses in your high school. This gives you a taste of college within the safety of your high school walls.
Who is eligible to participate?			
It is your decision to take an AP course. Students are encouraged to talk with their teachers, parents, and counselor to make sure they are prepared for the rigor of AP courses.	PIHS offers concurrent enrollment courses through Southwest Minnesota State University. Specific courses require certain academic standing for eligibility.	Any public high school or homeschooled student may apply. Applicants must begin the application process in the spring of the previous year and must meet college's admission requirements.	It is your decision to take a PLTW course. Students are encouraged to talk with their teacher, parents and counselor to make sure they are prepared for the rigor of the PLTW course
Who teaches the course?			
High school teacher	High school teacher	College professor	High school teacher
Where is the class held?			
Pine Island High School	Pine Island High School	College or university campus	Pine Island High School
How much does it cost?			
Classes are free, however there is an exam fee.	Free	Free (textbooks are included)	Classes are free. Credits are around $100
How do I earn college credit?			
You must take an exam which is graded on a 5-point scale. Most colleges award credit for scores of 3 or higher but some require scores of at least 4.	You earn high school and college credit upon successful completion of the course, which is based on multiple and varied assessments over the entire term of the course.	You earn high school and college credit upon successful completion of the course, which is based on multiple and varied assessments over the entire term of the course.	You may earn high school and college credit upon successful completion of the course with a class grade of 85% higher and a score of 70% or higher on the PLTW exam.
Do all colleges and universities accept these credits?			
Acceptance and transfer of credits for each of these programs varies by college but is recognized by most postsecondary institutions in the U.S. in some form. Credits may be directly transferred toward college graduation requirements, exempt a student from taking a required class, or allow the student eligibility for placement into a higher level course. Check with specific college or university about their individual policy.			
What courses are available to me at PIHS?			
AP Statistics AP Geography	*Essentials of Speaking & Listening (SMSU ENGLISH #110) *Introduction to Literature (SMSU: ENGLISH 101) *Calculus (SMSU: MATH 101) *Spanish III and IV (SMSU Foreign Language Course #210/202) *Physics (SMSU PHYS 120, 120L) *Intro to Visual Arts	PSEO students are eligible to take most courses that are available at a given college. Some restrictions may apply so check with individual postsecondary institutions for specific course availability.	*Human Body Systems * Medical Interventions *Principles of Biomedical Science * Intro to Engineering Design * Biomedical Innovations *Computer Integrated Manufacturing *Computer Programming
For More Information			
www.collegeboard.com/ap	Check with your school counselor	Education.state.mn.us	www.mnpltw.org

Pathways Class Description

What is a Pathway?

A pathway is a group of courses that will guide students toward a career pathway. Many of the pathways are offered for college credit. Students who take a pathway course may be able to transfer the credits to a college or enter directly into the workforce. Pathways offer an opportunity for careers that have family-sustainable wages. Student may enter into a pathway or exit a pathway at anytime.

Animal Systems Pathway

- Pet Animal Science
- Minnesota Wildlife Fall
- Minnesota Wildlife Spring
- Animal Science
- Internship/Work Experience

Plant Systems Pathway

- Natural Resources Science
- Introduction to Plant Science/Production
- Horticulture Fall
- Horticulture Spring
- Internship/Work Experience

Equipment Repair and Maintenance Pathway

- Engines
- Automotive Mechanics
- Mechanical Restoration
- Body Restoration
- Internship/Work Experience

Engineering and Technology

- Computer Integrated Manufacturing
- Introduction to Engineering Design
- Principles of Engineering Design

Manufacturing Pathway

- Computer Integrated Manufacturing
- Timber Manufacturing I
- Timbers Manufacturing II
- Metals Manufacturing I
- Metals Manufacturing II
- Internship/Work Experience

Marketing Pathway

- Introduction to Business
- Ads and Sales Marketing
- Sports Marketing
- Advanced Marketing
- Internship/Work Experience

Hospitality and Tourism Pathway

- Introduction to Business
- Ads and Sales Marketing
- Sports Marketing
- Internship/Work Experience

Biomedical Sciences Pathway

- Principles of Biomedical Science
- Human Body Systems
- Medical Interventions/Biomedical Innovations (2 credit option)
- Internship/Work Experience

SOUTHWEST STATE UNIVESITY "COLLEGE NOW" PROGRAM

How does the "College Now" Program benefit a student?

The program can be seen as a classroom enrichment program. Students gain valuable confidence in taking college level courses in a controlled environment. It also lends itself to non-traditional students and gives gifted students access to a challenge they may be seeking. The program gives college-bound students a unique opportunity to gauge their ability to do college work in introductory freshman-level courses prior to full time college study. Seniors must be in the top half of their class and carry a "B" average to participate. Juniors must be in the top third of their class and carry a "B" average to participate.

How does the "College Now" Program work?

Your high school teacher has agreed to teach the college version of your class. A university professor will also be assigned to work with your teacher and the class. The professor will supervise your teacher and makes sure that you are receiving college level instructions. University registration forms are available from your teacher or high school counselor. If you choose to register with the College Now Program for a specific course, you will take the class at your high school but the university will give you college credit for the completion of the class.

What "College Now" Courses does Pine Island Offer?

Art:	Visual Arts
English:	Introduction to Literature
	Essentials of Speaking and Listening
Foreign Language:	Spanish 3
	Spanish 4
Math:	Calculus
Science:	Physics

Advanced Placement Courses:

Pine Island High School offers Advanced Placement (AP) courses in Statistics and Geography. Advanced Placement courses are rigorous college level courses with curriculum that is determined by the College Board. AP courses are open to all PIHS students and we encourage students to take these courses. A student would need to be dedicated and self motivated to do well in these classes. College admissions offices tend to give special consideration to students who take these classes even if they do not get an A or B as they may have in other classes. The level of rigor is such that any student who completes these courses portrays perseverance and a belief that learning is both fun and hard work.

Project Lead the Way Courses:

Pine Island High School offers Project Lead the Way (PLTW) courses in Science and Engineering. PLTW courses are rigorous college level courses that focus on project based and hands-on learning. PLTW courses emphasize critical thinking, creativity, innovation and real-world problem solving. PLTW course are open to all PIHS school students and may be of interest to students pursuing STEM-related career fields. College credit is contingent on successful completion of the course with an 85% or higher and a minimum of 70% on the final PLTW course exam. Upon successful completion of the exam, students can opt to have their college credits transcribed at PLTW affiliate colleges and universities.

College Level Examination Program (CLEP):

Pine Island students have the option of testing for college credit. The CLEP program is organized by the College Board and is different from AP in that a student may take a class offered by PIHS and then attempt to test out of the class at the college level. If a student obtains a certain score, the student can request college credit through examination at the college that they choose. Students should see their teacher or counselor regarding the CLEP option.

Post Secondary Credit Options at Pine Island High School:

Pine Island High School currently offers 28 plus college level credits through our "College Now" Program, Advanced Placement, and CLEP options. We believe that we can provide a quality education and some college level credits to help students continue with their education and career focus along with the ability to participate in some successful co-curricular programs.

NCAA Freshman –Eligibility Standards

Pine Island High School offers courses that are NCAA approved. This means that a student whom is considering attending a NCAA college or University either Division I or II, may be eligible for scholarships and participate in intercollegiate activities. Pine Island High School is listed on the NCAA website as a member school (# 242000) and you may see the list of approved courses on that site. Please keep this in mind if you have any interest in participating in Intercollegiate Athletics. The general website for the NCAA website is, www.NCAA.org. To view the Clearinghouse website where our approved courses are listed view, www.ncaaclearinghouse.net.

Please look at this website to find the complete listing of eligibility requirements for eligibility for intercollegiate athletics. If you have questions or trouble finding the site, please contact the Athletic Director, Counselor, or Principal. Your college Counselor, Athletic Director, or Registrar can also help you understand the requirements for eligibility.

Due to changes in the eligibility requirements on a periodic basis we will not list them in this handbook, please use the websites listed above as your source of information.

ARTICULATION AGREEMENTS

Tech Prep Articulation Agreements between Pine Island High School and area colleges allow high school students to gain advanced standing (Tech Prep certificates) for college while completing high school courses. High school juniors or seniors who demonstrate mastery of specified competencies and receive a grade of B or higher, will receive an Advanced Standing/Tech Prep Certificate. Students can apply credits earned through Advanced Standing Certificates to a specific program of study at the colleges identified below. Credits given for the Advanced Standing/Tech Prep Certificates will vary by college or technical school. (See your school counselor or the instructor of that course for more details.) Please note that these agreements can change during the school year. Please check with teacher or counselor for an updates.

Course:	Tech Prep Certificate:	Participating Colleges:
Digital Photography	Introduction to Adobe Photoshop	• Dakota County Technical College • Ridgewater College – Hutchinson and Willmar • Rochester Community and Technical College • South Central College – North Mankato
Web Design and Desktop Publishing	Desktop Publishing	• Minnesota State College – Southeast Technical Red Wing • Minnesota West Community and Technical College – Jackson • Ridgewater College – Hutchinson and Willmar • Riverland Community College – Albert Lea • Rochester Community and Technical College • South Central College – Faribault • South Central College – North Mankato
Career Pathway: Business, Management and Administration		
Course:	**Tech Prep Certificate:**	**Participating Colleges:**
Accounting *(Need Full Year)*	Principles of Bookkeeping	• Dakota County Technical College • Inver Hills Community College, Inver Hills Campus • Minnesota West Community and Technical College - Jackson • Ridgewater College-Hutchinson and Willmar • Riverland Community College – Albert Lea • Rochester Community and Technical College • South Central Technical College - Faribault and North Mankato
Entrepreneurship	Entrepreneurship	• Dakota County Technical College • Ridgewater College – Hutchinson and Willmar • South Central College – North Mankato
Career Pathway: Health and Human Services		
Course:	**Tech Prep Certificate:**	**Participating Colleges:**
Child Development: The First Year Child Development: The Preschool Years *(Need to complete both courses.)*	Foundations of Child Development	• Dakota County Technical College • Minnesota State College – Southeast Technical Red Wing • Minnesota West Community and Technical College – Granite Falls • Ridgewater College – Hutchinson • Rochester Community & Technical College • Saint Paul College • South Central College – Faribault and North Mankato
ProStart II Restaurant Management	Basic Cooking Principles	• South Central Technical College – North Mankato
Career Pathway: Engineering, Manufacturing and Technologies		
Course:	**Tech Prep Certificate:**	**Participating Colleges:**
CAD II	Basic AutoCAD	• Dakota County Technical College • Ridgewater College – Hutchinson and Willmar • Rochester Community and Technical College • South Central College – North Mankato
Power Mechanics I	Basic Engine Performance	• Ridgewater College – Willmar • Riverland Community College – Albert Lea • Rochester Community and Technical College • South Central College – North Mankato
Power Mechanics I	Introduction to Automotive Technology	• Dakota County Technical College • Ridgewater College – Willmar • Riverland Community College – Albert Lea • Rochester Community and Technical College • South Central College – North Mankato
Small Engines	Small Gas Engines	• Minnesota State College – Southeast Technical Winona • Ridgewater College – Willmar • South Central College – North Mankato
Independent Study *(Need counselor and instructor approval.)*	Related Welding	• Dakota County Technical College • Ridgewater College – Hutchinson and Willmar • Riverland Community College – Albert Lea • Rochester Community and Technical College • South Central College – North Mankato
Independent Study (Need counselor and instructor approval.)	Introduction to Web Programming 1	• Dakota County Technical College • Ridgewater College-Hutchinson and Willmar • Riverland Community College • South Central College – North Mankato
Computer Programming II	Introduction to Programming	• Dakota County Technical College • Minnesota West Community and Technical College – Granite Falls • Ridgewater College – Hutchinson • Riverland Community College • South Central College – North Mankato
Career Pathway: Agriculture and Natural Resources		
Course:	**Tech Prep Certificate:**	**Participating Colleges:**
Horticulture	Agronomy	• Dakota County Technical College • Ridgewater College – Willmar • South Central College – North Mankato

AGRISCIENCE STUDIES

Course name: **ANIMAL SCIENCE**
Teacher: **Mr. Erickson**
Grade Level: **10-12**
Grad Package: **None** *Course Code*: **686**
Length of course: **Semester** *Prerequisite*: **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This class will be based on the University of MN animal science course. The plan is to develop this class into a college in the schools course down the road. We will test run parts of it this year. Topics will include: Nutrition, Physiology, Genetics, and Production Practices. Species covered will include: Cattle (Dairy and Beef), Sheep, Goats, Swine, Horse, and Poultry. There will be hands-on activities and trips with this class.

Course name: **EMPLOYEE AND HUMAN RESOURCE RIGHTS, RESPONSIBILITES AND RELATIONSHIPS (E-HR-R^3)**
Teacher: **Mr. Erickson**
Grade level: **11-12**
Course: **Elective** *Course Code*: **831**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Students who take this course will qualify to participate in the On the Job Work Cooperative Class, OJT Work Cooperative during their senior year. The focus of this class will be on the relationship between the employee and employer. Topics will include finding the right job fit, workplace communication, workplace rights and safety, money management and job searching. THIS COURSE IS AN ON-LINE COURSE.

Course name: **ENTREPRENEURSHIP**
Tech Prep College Credit: Entrepreneurship
Teacher: **Mr. Erickson**
Grade level: **9-12**
Course: **Elective** *Course Code*: **71**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Owning your own business can be exciting and satisfying. However, there are a lot of challenges to running a business. This class discusses how to develop an entrepreneurial business. You will actually create a business plan and explore product development. We will explore every part of the business from customer service, production and finances. We also plan a sale. We will also tour small businesses from around the community.

Course name: **EXPLORING AG FALL**
Teacher: **Mr. Erickson**
Grade Level: **9-12***
Grad Package: **None** *Course Code*: **313**
Length of course: **Semester** *Prerequisite*: **None**
Number of periods per day: **1** Credits: **.50**

Description: We all need animals, plants and natural resources to survive. In this class we will scratch the surface about the Agriculture Industry. We will also introduce the FFA through many fun, hands-on activities. We will learn about leadership, meeting functions, and the livestock industry to name a few topics. Come find out what agriculture is about!
*Preference will be given to ninth and tenth graders.

Course name: **EXPLORING AG SPRING**
Teacher: **Mr. Erickson**
Grade Level: **9-12***
Grad Package: **None** *Course Code*: **314**
Length of course: **Semester** *Prerequisite*: **None**
Number of periods per day: **1** Credits: **.50**

Description: In the spring we will explore the plant and natural resource side of agriculture. We will introduce the FFA, but also spend time in the greenhouse, looking at nature, and exploring the pet industry. Even if you couldn't fit in EXPLORING AG FALL, come join us in the spring! This class will include many hands-on activities, trips, and speakers.
*Preference will be given to ninth and tenth graders.

Course name: **FOOD SCIENCE**
Teacher: **Mr. Erickson**
Grade level: **10-12**
Course: **Elective** *Course Code*: **802**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Have you ever wondered about the processes your food goes through to keep it safe? The United States has one of the safest food supplies in the world. Course content will focus on laws and technology associated with food safety. We will discover how to improve the shelf life of food and how to make food taste good with the use of additives. We also track food's journey from the field to the grocery store. This class will include guest speakers, field trips and hands-on activities.

Course name: **HORTICULTURE - FALL**
Tech Prep College Credit: Agronomy
Teacher: **Mr. Erickson**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$10**
Course Code: **127A**
Prerequisite: **None**
Credits: **.50**

Description: Students will be introduced to the greenhouse and management practices. Units may include: Fall/Winter plant production, Hydroponics, Aquaponics, Landscape principles and design.

Course name: **HORTICULTURE - SPRING**
Tech Prep College Credit: Agronomy
Teacher: **Mr. Erickson**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$10**
Course Code: **127B**
Prerequisite: **None**
Credits: **.50**

Description: This course will expose students to the spring operations of a greenhouse and the outdoor gardens. Units may include: Landscape installation, Floriculture, Plant sales and marketing, garden planning and care.

Course name: **INTRODUCTION TO PLANT SCIENCE/PRODUCTION**
Teacher: **Mr. Erickson**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **01**
Prerequisite: **None**
Credits: **.50**

Description: This course will expose students to the Crops Industry of American Agriculture. Technology and Science will be explored. Units may include, but are not limited to: Corn, Soybeans, Forages, Small Grains, Specialty Crops, and GMO's. Size and Scale will also be addressed.

Course name: **NATURAL RESOURCE SCIENCE**
Teacher: **Mr. Erickson**
Grade level: **10-12**
Course: **Elective** *Course Code*: **801**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Natural resources such as energy, paper, water and air are used every day. Resource management is everybody's concern. The quality of our environment and our economic well-being depends on wise use of our resources. Natural resources will incorporate topics such as soil, water, and air. Also, we will discuss sustainable ecosystems including forests, prairies, and wetlands. This class will include guest speakers, field trips and hands-on activities.

Course name: **OTJ WORK COOPERATIVE PROGRAM**
Teacher: **Mr. Erickson**
Grade level: **12**
Course: **Elective** *Course Code*: **131/132**
Length of course: **Year** *Prerequisite:* **Employee & Human Resource Rights, Responsibilities and Relationships**
Number of periods per day: **1** *Credits*: **1**

Description: The On the Job Work Cooperative Program class is a practicum work experience class for seniors. Students who have taken Workplace Readiness and have a job will be allowed in this class. Students are released during 7th or 8th hour to work at a local business. Credit will be given for work provided that proper course guidelines are followed. Students may be released from school to work provided their academic standing is satisfactory. The purpose of this on-the-job training program is to encourage actual career explorations.

Course name: **MN WILDLIFE FALL**
Teacher: **Mr. Erickson**
Grade level: **9-12** *Course Fee:* **$70- Cost of Fishing Rod**
Course: **Elective** *Course Code*: **315**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Are you a wildlife enthusiast? This class is the first of two courses for you. We will spend time learning about some of MN greatest resources. In MN Wildlife Fall we will focus on MN mammals. We will also build a custom fishing rod. This class will include guest speakers, field trips and hands-on activities.

Course name: **MN WILDLIFE SPRING**
Teacher: **Mr. Erickson**
Grade Level: **9-12**
Course: **Elective** *Course Code*: **316**
Length of course: **Semester** *Prerequisite*: **None**
Number of periods per day: **1** Credits: **.50**

Description: We will look at MN birds, fish, insects, amphibians, and reptiles. We will look at hunting and fishing regulations. We will spend a day fishing. If you missed MN WILDLIFE FALL feel free to join us in the spring to expand your wildlife. This class will include guest speakers, field trips and hands-on activities.

Course name: **PET ANIMAL SCIENCE**
Teacher: **Mr. Erickson**
Grade Level: **9-12**
Course: **Elective** *Course Code*: **340**
Length of course: **Semester** *Prerequisite*: **No**
Number of periods per day: **1** *Credits*: **.50**

Description: Interested in animal training, health, nutrition and breeding? Animals are important to our society for reasons other than money. We use them for work, sport, protection, and in many cases, just for companionship. Course content will focus on the principles of animal care, management and veterinarian medicine. We will discuss birds, reptiles, fish, cats and dogs. If you enjoy working with small animals, this class is a great fit.

ART

Course name: **ART I**
Teacher: **Mrs. Mentjes**
Grade level: **9-12**
Course: **Elective** *Course Code*: **140**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This introductory course will provide an in-depth background into two- and three-dimensional design and is a prerequisite for all other art classes. Students will focus on the elements and principles of design through a variety of media. Students will work on drawing, ceramics, digital photography, sculpture, graphic design, and painting using art history as a resource. This class includes weekly sketchbook assignments as well as project critiques.

Course name: **CERAMICS I**
Teacher: **Mrs. Mentjes** *Course Fee:* **$20**
Grade level: **10-12** *Course Code*: **145**
Course: **Elective**
Length of course: **Semester** *Prerequisite:* **Art I**
Number of periods per day: **1** *Credits*: **.50**

Description: This class focuses on the exploration of the use of clay as a medium. Students will refine their use of three-dimensional design and form. Work will focus on both functional and sculptural work using both hand-building and wheel-throwing processes. This course will cover some art history of ceramics, the study of glazes, and the operation of the kiln. This class includes project sketchbook assignments, written self-critiques and oral group critiques.

Course name: **CERAMICS II**
Teacher: **Mrs. Mentjes**
Grade level: **11-12** *Course Fee:* **$20**
Course: **Elective** *Course Code:* **229**
Length of course: **Semester** *Prerequisites:* **Art 1 and Ceramics 1**
Number of periods per day: 1 *Credits:* **.50**

Description: This course is a continuation of Ceramics 1. Additional ceramics techniques will be explored and students will create advanced, larger projects to reflect their own preferences in technique, such as a working water fountain. Glaze and kiln journals will be required.

Course name: **DIGITAL PHOTOGRAPHY**
Teacher: **Mrs. Mentjes**
Grade level: **10-12** *Course Code:* **687**
Course: **Elective**
Length of Course: **Semester** *Prerequisite:* **Art 1**
Number of periods per day: **1** *Credits:* **.5**

Description: This class focuses on the exploration of digital photography and its alteration through Adobe Photoshop. Students will explore portrait, macro, action, and landscape photography as well as many subjects of their choice. Students will learn about photographic history as well as how to critique photography. This class includes a bi-weekly Schoology discussion assignments.

Course name: **DRAWING AND DESIGN**
Teacher: **Mrs. Mentjes**
Grade level: **10-12**
Course: **Elective** *Course Code*: **146**
Length of course: **Semester** *Prerequisite:* **Art I**
Number of periods per day: **1** *Credits*: **.50**

Description: This course focuses on the exploration of a variety of drawing methods, techniques, and mediums. Work will focus on drawing from life, drawing from the imagination, and using drawing to produce graphic design. You will explore techniques and processes in pencil, pen and ink, colored pencils, and digital media. Students will take part in self and group critiques of their work. This class includes weekly sketchbook assignments.

Course name: **DRAWING II**
Teacher: **Mrs. Mentjes**
Grade level: **11-12**
Course: **Elective** *Course Code*: **257**
Length of course: **Semester** *Prerequisite:* **Art 1, Drawing & Design**
Number of periods per day: **1** *Credits*: **.50**

Description: This class is a continuation of Drawing and Design. Additional drawing techniques and mediums will be explored. Past and present artists' work will be studied and analyzed. Students will have bi-weekly sketchbook assignments and will create a drawing portfolio.

Course name: **GRAPHIC DESIGN AND ANIMATION**
Teacher: **Mrs. Mentjes**
Grade level: **10-12** *Course Code:* **688**
Course: **Elective**
Length of Course: **Semester** *Prerequisite:* **Art 1**
Number of periods per day: **1** *Credits:* **.5**

Description: This class focuses on the exploration of animation and graphic design through the use of Adobe Illustrator and Adobe Flash Professional. Graphic design projects will include logos, posters, t-shirt designs, and infographics. Animation projects will include flipbooks, zoetropes, and Flash Animation.

Course name: **INTRODUCTION TO VISUAL ART** (Southwest State Art Department Course # 100)
Teacher: **Mrs. Mentjes**
Grade level: **11-12**
Course: **Elective** *Course Code:* **4**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits:* **.50 High School Credit**
(3 College Semester Credits)

Description: Students may choose to earn three semester credits from Southwest State University by successfully completing course requirements. Designed to introduce high school students to the attitudes and philosophies that relate to creative production in the visual arts and to help develop a positive attitude to the arts through the study of theory, styles of art history, structure and periods of art, combined with an active art gallery program and a variety of studio projects. Art projects will be judged on creative intent and fulfillment of stated requirements, not on "artistic" ability. This art course helps students with creative thinking skills, expressive abilities and self-management needed in the college setting.

This class is primarily for juniors and seniors, and enrollment is limited. Students must meet SMSU eligibility requirements to enroll.

Course name: **PAINTING I**
Teacher: **Mrs. Mentjes**
Grade level: **10-12** *Course Fee:* **$15**
Course: **Elective** *Course Code*: **141**
Length of course: **Semester** *Prerequisite:* **Art I**
Number of periods per day: **1** *Credits*: **.50**

Description: Painting I will focus on the elements of design. Students will learn painting techniques in tempera, acrylic, dyes, and watercolor on various surfaces. The painting methods of both past and present artists will be an integral part of this class. This class includes project sketchbook assignments as well as self and group critiques.

Course name: **PAINTING II**
Teacher: **Mrs. Mentjes**
Grade level: **11-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$15**
Course Code: **258**
Prerequisite: **Art 1, Painting I**
Credits: **.50**

Description: This class is a continuation of Painting I. Students will study the master's of painting through art history. Painting from nature, models, and imagination will be explored through various techniques in oil, acrylic, and watercolor paints. The design and painting of the Senior Wall will also be included in this class.

Course name: **SCULPTURE**
Teacher: **Mrs. Mentjes**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$20**
Course Code: **143**
Prerequisite: **Art I**
Credits: **.50**

Description: This class focuses on the exploration of a variety of sculptural methods, techniques, and mediums. Work will focus on both additive and subtractive sculptural methods in clay, metal, wood, and mixed media. You will be encouraged to find your own personal artistic vision through the exploration of architectural, figurative, abstract, and non-objective design. Students will write a critique on each project.

BUSINESS

Course name: **ACCOUNTING**
Tech Prep College Credit: Principles of Bookkeeping
Teacher: **Ms. Rusch**
Grade level: **11-12**
Course: **Elective** *Course Code*: **91**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This basic introductory course in accounting is designed for everyone. Working with sample service businesses, you will discover how a business runs and makes a profit. Accounting graduates are in high demand. This course provides an excellent foundation for careers in business and is a must for students interested in a 2 or 4-year business degree after high school.

Course name: **ADS AND SALES MARKETING** *NCAA Approved Course*
Teacher: **Ms. Rusch**
Grade level: **10-12**
Course: **Elective** *Course Code*: **332**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: You will be introduced to the exciting world of marketing by applying marketing concepts to real world situations, with a focus on advertising and personal selling. Your skills in creating attention-getting advertisements and promotions will be put to the test by creating an advertising campaign for a real business. Have you ever wished you were better at convincing people to see your side of things and at getting your point across? Professional sales and marketing skills give professionals in **every** occupation a dynamic advantage in today's competitive marketplace. EVERYONE can be good at selling, whether it be a pair of shoes, a snowboard, a car, or selling an employer on why they should hire you. Students will have the opportunity to join a nationally-known student organization, DECA, and apply their marketing skills through travel and competition in leadership conferences, district, state, and national competitions.

Course name: **ADVANCED MARKETING**
Teacher: **Ms. Rusch**
Grade level: **10-12**
Course: **Elective**
*Length of course***: Semester**
Number of periods per day: **1**

Course Code: **2**
Prerequisite: **Ads & Sales Marketing or Sports & Entertainment Marketing or Instructor Approval**
Credits: **.50**

Description: Have you taken Ads & Sales Marketing or Sports & Entertainment Marketing? If you have, then sign up for Advanced Marketing! In this course, we will build upon the concepts learned in other marketing courses. This course will focused on advanced professional selling techniques, marketing research, and in-depth advertising techniques. This project based class is perfect for students interested in going into a business or marketing major in college. This class will also be greatly beneficial to students involved in DECA.

Course name: **ANIMAL LAW**
Teacher: **Ms. Rusch**
Grade level: **10-12**
Course: **Elective**
*Length of course***: Semester**
Number of periods per day: **1**

Course Code: **3**
Prerequisite: **None**
Credits: **.50**

Description: Do you have pets of your own? Do you have an interest in animals? If so, then Animal Law is the course for you! This area of law is rapidly growing around the country, with many top law schools offering it as a specialty. It's a challenging area of law with new cases popping up that often make the headlines and have a large amount of public interest. In this course, you will learn about laws related to dogs and other pets, laws regulating the use of animals like orcas and elephants for entertainment, and many other topics. Traditional areas of law such as criminal and civil law will be discussed as well. Community service and guest speakers will also be included in this class.

Course name: **INTRODUCTION TO BUSINESS AND MARKETING**
Teacher: **Ms. Rusch**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**

Course Code: **400**
Prerequisite: **None**
Credits: **.50**

Description: Do you want to be a doctor? Lawyer? Engineer? CEO? Understanding business basics is essential for ALL careers, not just accountants and marketers. This course will give you a broad exposure to business activities including entrepreneurship, ethics, marketing, and investing. In this class, you'll have the opportunity to invest $100,000 (virtual money, not real) in the stock market by playing the Virtual Stock Exchange. Join this class and find out if you might be the next Bill Gates or Steve Jobs. This class is HIGHLY recommended for all students interested in taking other business courses or joining DECA. Priority will be given to students in grades 9 and 10.

Course name: **PERSONAL AND BUSINESS LAW** *NCAA Approved Course*
Teacher: **Ms. Rusch**
Grade level: **10-12**
Course: **Elective** *Course Code*: **192**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Have you ever wondered about where laws come from and how they can affect your life? If so, come learn about the legal system of the United States. Through this course, students will be informed of their rights, responsibilities, and obligations in personal and business encounters. Topics include criminal and civil law, the court system at the federal, state, and local levels, as well as other issues that will play a role in your everyday life.

Course name: **SPORTS AND ENTERTAINMENT MARKETING**
Teacher: **Ms. Rusch**
Grade level: **10-12**
Course: **Elective** *Course Code*: **685**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Things are looking exciting for football in Minnesota as the Vikings move to their brand new stadium in a couple of years. Do you know how much money Target had to pay for the rights to name the stadium Target Field? What about the Gophers TFC Bank Stadium? Maybe sports aren't your thing, but you love music and movies. Why does popcorn cost so much at the theater? How does your favorite band manage to make any money when they're on the road all the time? These are just a few of the questions that can be answered when you discover the ways businesses use sports and entertainment events to increase their profits. Participate in hands-on marketing projects, such as developing a marketing plan for a brand new NFL franchise, and start looking at the sports teams and bands you love in a different way. Students will have the opportunity to join a nationally-known student organization, DECA, and apply their marketing skills through travel and competition in leadership conferences, district, state, and national competitions.

Course name: **WEB DESIGN AND DESKTOP PUBLISHING**
Tech Prep College Credit: Desktop Publishing
Teacher: **Ms. Rusch**
Grade level: **10-12**
Course: **Elective** *Course Code*: **331**
*Length of course***: Semester** *Prerequisite:*
Number of periods per day: **1** *Credits*: **.50**

Description: This is a hands-on course designed to introduce students to desktop publishing and web design from a business and marketing perspective. Students will use Adobe Creative Suite software including Illustrator, InDesign, and Photoshop to create eye-catching business and personal use items including business cards, restaurant menus, and marketing materials for businesses. Dreamweaver will be used to introduce the basic principals involved in creating a professional looking website. No programming knowledge is required or used in this project-based approach that follows the phases of web design from project planning to evaluation.

ENGLISH

Students must earn four credits of English during grades 9-12 (one credit each year). In addition, senior high electives for students in grades 11 and 12 will be offered for those wishing to do extended work in the area of language arts.

Course name: **ENGLISH 9** *NCAA Approved Course*
Teacher: **Mrs. Laack**
Grade level: **9**
Course: **Required** *Course Code*: **22/23**
*Length of course***: Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: English 9 is devoted to developing the basic skills students need to read, write, and critically think. Students are introduced to various types of literature including short stories, Greek mythology, the novel, Shakespearean drama, and poetry. Students are taught how to construct quality sentences and paragraphs. In addition, students are given a comprehensive review of grammar. Students will also be exposed to public speaking and the skills required to write, prepare and deliver a speech.

Course name: **ENGLISH 10 (Face to Face & Online Option)** *NCAA Approved Course*
Teacher: **Mrs. Organ**
Grade level: **10**
Course: **Required** *Course Code*: **10/11**
*Length of course***: Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: English 10 is a mandatory course for all sophomores. Class work is divided among literature, grammar, and composition. Material will be presented in thematic units with small group work, discussion, and continuous improvement stressed throughout the year. Major units include reading *To Kill a Mockingbird*, *Of Mice and Men*, and *Animal Farm*. In addition, we explore the influence nature has on literature and meet state standards for media literacy. One section of English 10 will be available in an online format (15 students max). Students interested in taking this course online must fill out an application. Applications are available from Mrs. Organ

Course name: **ENGLISH 11** *NCAA Approved Course*
Teacher: **Mrs. Muston**
Grade level: **11**
Course: **Required** *Course Code*: **260/261**
*Length of course***: Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: In American Literature, a required class, students will read works from 1620 to the present while considering the historical influence on the writing. Students will also read *The Catcher in the Rye* OR *The Great Gatsby* and *The Bean Trees* OR *Ender's Game*. Persuasive, reflective, analytical, and research writing will be woven in throughout the year with an emphasis on word choice, sentence structure, and mechanics/conventions. The teaching of MLA conventions also prepares students for the college courses offered. There is also an increased emphasis on grammar and mechanics instruction with the ACT now being required for all high school juniors.

Course name: **ENGLISH 12** *NCAA Approved Course*
Teacher: **Mr. Smith**
Grade level: **12**
Course: **Required** *Course Code*: **262**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course looks at the history of British literature from the Anglo-Saxons through the 20th century; including Beowulf, The Canterbury Tales, Arthurian Legend, Hamlet, Macbeth etc. The course requires both independent and collaborative work and will stress the use of technology in its delivery. This is a required course for graduation

Course name: **ENGLISH COLLEGE PREP** *NCAA Approved Course*
Teacher: **Mrs. Muston**
Grade level: **11 or 12**
Course: **Required elective for select students** *Course Code*: **364/365**
*Length of course***: Year** *Prerequisite:* **teacher recommendation**
Number of periods per day: **1** *Credits*: **1**

Description: A senior English course, which replaces English 12, offered to students seeking success in a two- or four-year college institution. The class will be recommended to students based on teacher observations, test scores, a future-plans survey, and a desire to succeed. English 12 curriculum will be covered, along with an emphasis on college preparatory reading, speaking, and writing, including a review of MLA paper formatting. Personal learning styles and organization skills will be addressed as well, creating confident students who are ready for independent learning.

Course name: **ESSENTIALS OF SPEAKING AND LISTENING (online) (SMSU Speech 110)**
Teacher: **Mrs. Organ** (*NCAA Approved Course)*
Grade level: **11-12** *Class Size:* **25**
Course: **Elective** *Course Code*: **264**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **online** *Credits*: **.50** High School Credit
(3 College Semester Credits)

Description: This is an on-line hybrid course. Students may choose to earn three semester credits from Southwest State University by successfully completing course requirements. The course will focus on teaching the basics of public speaking and will include teaching students how to outline effectively, establish speech purpose, research, organize materials, and deliver speeches while minimizing distractions. Four major speeches will be assigned over the course of the semester. This class is primarily for juniors and seniors, and enrollment is limited. Students must meet SMSU eligibility requirements to enroll.

Course name: **HUMANITIES** *NCAA Approved Course*
Teacher: **Mr. Smith**
Grade level: **10-12**
Course: **Elective** *Course Code*: **275**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course is the study of interrelationships of art, music, literature, science, and philosophy as it occurs in history. We will study the history of mankind in Mesopotamia, Egypt, Indus Civilizations, China, Japan, and Greece. The class will involve various projects requiring considerable independent study, as well as lecture and discussion.

Course name: **INTRODUCTION TO LITERATURE (online)**
(Southwest State English Department Course #s 101)
Teacher: **Mrs. Organ** **(***NCAA Approved Course)*
Grade level: **11-12** *Class Size:* **25**
Course: **Elective** *Course Code*: **266**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **online** *Credits*: **.50**

Description: Students may choose to earn three semester credits from Southwest State University by successfully completing course requirements. This course is an introduction to literature through the study of works past and present, which explore both the nature of humanity and humanity's relation to the world. Students will be introduced to literature from diverse groups in the United States, focusing, for example, on race, gender, and/or class. This course is for juniors and seniors, and enrollment is limited. Students must meet SMSU eligibility requirements to enroll. Completion of this course exempts students from second semester of English 12.

Course name: **MEDIA AND PRODUCTION**
Teacher: **Mrs. Laack**
Grade level: **10-12** *Course Code:* **405**
Course: **Elective** *Prerequisite:* **C or better in English both semesters prior to taking the class**
Length of course: **Semester 1**
Number of periods per day: **1** *Credits:* **.50**

Description: This is a semester long course that provides students with a preview of the world of Media and Production. The course produces three elements that are essential to the public sphere of PIHS: the school newspaper (*The Panther Press*), the television announcements (*The Panther Primetime)*, and the high school yearbook (*The Pine Log*). During the course of the semester, students will learn the ins and outs of writing news articles, television announcing and production, and digital design and production of the annual. Topics covered in class beyond the three focal points include: culture in media (including music videos and television), biases in media, advertising, effects of media, and photojournalism. Media and Production is a course where, working together as a team, we use speaking, writing, and production to create pieces of media that effectively communicate with the masses of PIHS and the Pine Island community.

Course name: **PUBLISHING AND DESIGN**
Teacher: **Mr. Smith**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester 2**
Number of periods per day: **1**
Course Code: **406**
Prerequisite: **C or better in English both semesters prior to taking the class**
Credits: **.50**

Description: This is a semester long course that provides students with a preview of the world of Publishing and Design. This is a course where, working together as a team, we use creativity, design, and marketing to produce Pine Island's longest lasting publication – the yearbook. During the course of the semester, students will learn the ins and outs of digital design and production of the annual. We will also cover other topics such as: movie making (including *The Panther Pause*), magazine production, newspaper publications (including the *Panther Press*), and more.

Course name: **SPEECH AND DRAMA**
Teacher: **Mrs. Laack**
Grade level: ***9 – 10***
Course: ***Elective***
Length of Course: ***1 Semester***
Number of periods per day: ***1***
Course Code: **1001c**
Prerequisite: ***No***
Credits: ***.50***

Description: Speech and Drama is a semester elective, which focuses on becoming a confident in front of an audience. Speaking opportunities--some serious and some not-so-serious--await for students who want to practice verbal and non-verbal speaking techniques and get feedback from the teacher and peers in a non-threatening environment. For one quarter, students will focus on the writing and delivery of a variety of speeches. Quarter two will focus on drama as the class prepares for a performance through memorization of lines, natural movement, facial expressions, gestures, and voice projection. The semester will end with an original TED talk about a personal interest of passion.

Course name: **THE FILM EXPERIENCE (online)**
Teacher: **Mrs. Organ**
Grade level: **10-12**
Course: **Elective**
Number of periods per day: ***1***
Course Code: **690**
Prerequisite:
Credits: ***.50***

Description: Are you a movie buff? Then this class is for you! This online course will allow students to study the art of film from the comforts of home or school while completing short assignments, several of which are hands-on activities unlike anything else you'd do in an English class! Students will be exposed to the film medium in a variety of ways including but not limited to the following: viewing films to discover how movies have changed with technology, comparing the impact of music on films, and understanding the different film genres including science fiction, fantasy, comedy, action, adventure, and documentaries. A wide variety of films and film clips will be used, including several current day movies!

FAMILY AND CONSUMER SERVICES

Course name: **CHILD DEVELOPMENT: THE FIRST YEAR**
Tech Prep College Credit: Foundations of Child Development (Need to complete both The First Year and The Preschool Years)
Teacher: **Ms. Koster**
Grade level: **9-12**
Course: **Elective** *Course Code*: **720**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course will cover pregnancy through the first year of life. Students will take an in-depth look at pregnancy and birth. This will include the topics of pregnancy complication, birth defects, and birth options. Time will be spent on the physical, emotional, social and intellectual development of the child during the first year. This will include an experience with the Baby Think it Over.

Course name: **CHILD DEVELOPMENT: THE PRESCHOOL YEARS**
Tech Prep College Credit: Foundations of Child Development (Need to complete both The First Year and The Preschool Years)
Teacher: **Ms. Koster**
Grade level: **9-12**
Course: **Elective** *Course Code*: **721**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course will cover the development from the beginning of the second year through age 5. Students will study the physical, emotional, social and intellectual development of children. This will include topics such as childhood nutrition, brain development, how to encourage learning and developing positive self concept. The course will also include opportunity for students to observe and work with children of these ages.

Course name: **CLOTHING CONSTRUCTION**
Teacher: **Mrs. Berg**
Grade level: **9-12**
Course: **Elective** *Course Code*: **402**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This class offer students opportunities to learn basic and advanced sewing skills that match their ability level. The first portion of the class will be spent on learning a variety of clothing construction skills that will be applied when students work on their individual projects. Sewing techniques, such as seams and finishes, hems, zippers, buttons and buttonholes are some the skills that will be covered. Projects include fleece mittens, a choice project and a recycle and redesign project.

Course name: **COLLEGE AND CAREER READINESS I**
Teacher: **Ms. Rusch**
Grade level: **9**
Course: **Required** *Course Code*: **362a**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course will cover topics relating to decision-making, character development and career investigation. A major portion of the class will deal with career investigation. Students will research career options for themselves in the future, in addition to researching post-secondary education options relating to their career choices.

Course name: **COLLEGE AND CAREER READINESS II**
Teacher: **Ms. Koster**
Grade level: **11-12**
Course: **Required** *Course Code*: **362b**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course will cover topics relating to decision-making, character development and career investigation. A major portion of the class will deal with career investigation. Students will research career options for themselves in the future, in addition to researching post-secondary education options relating to their career choices. This class is required for graduation and is most useful if taken during the junior year.

Course name: **FACS I (Family and Consumer Sciences)**
Teacher: **Mrs. Berg**
Grade level: **9-12**
Course: **Elective** *Course Code*: **102**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This introductory course covers all phases of family and consumer sciences. The food unit emphasizes skills in food preparation and service, time management and small group cooperation. Students will prepare quick breads, yeast breads, eggs and sandwiches. There is a sewing project the students will construct that uses basic sewing techniques.

Course name: **FACS II (Family and Consumer Sciences)**
Teacher: **Mrs. Berg**
Grade level: **9-12**
Course: **Elective** *Course Code*: **103**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course covers all phases of family and consumer sciences, also. The curriculum will include the study of fibers and fabrics and the construction of a garment. The food unit will include skills in food preparation and service, time management and small group cooperation. A unit on food buying will help students learn skills in making good decisions to get the most for their money. They will learn to read appliance manuals and will demonstrate the use of that appliance by preparing a sample food item.

Course name: **FACS FOR THE SPORTSMAN (Family and Consumer Sciences)**
Teacher: **Mrs. Berg**
Grade level: **10-12**
Course: **Elective** *Course Code*: **691**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This class is designed for the students who have a love for the outdoors and hunting. During the semester students will design and make a personalized hunting vest, learn safety and sanitation principles related to working with wild game and learn cooking techniques that can be applied to wild game. Techniques will include grilling, smoking, brining, injection and drying. Students will have opportunity to put to use these techniques using a variety of meats, poultry and fish. Students will also learn how to use wild game in soups, stews and other side dishes.

Course name: **INDEPENDENT LIVING**
Teacher: **Mrs. Berg or Ms. Koster**
Grade level: **10-12**
Course: **Elective** *Course Code*: **408**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Independent Living prepares students to live successfully on their own. Opportunities are provided for practicing decision making skills in the area budgeting, major purchase, food, clothing choices and financial services. Credit cards, debit cards and loans will be topics of discussion and students will learn how to handle each in a successful manner. Students will be given the hands on experiences to practice the learning that is taking place in the class, by use of a simulation activity.

Course name: **INTERIOR DESIGN**
Teacher: **Mrs. Berg**
Grade level: **10-12**
Course: **Elective** *Course Code*: **403**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This class will explore a topic that affects all students – their home environments. Students will learn to use sound decision making skills to acquire housing throughout the life cycle. All aspects of housing will be studied, such as architectural and furniture styles, current construction methods and materials, principles of good design, selecting and arranging furniture, choosing appliances, and consumer rights and responsibilities related to housing.

College credit can be earned by completing both classes and working in the food service industry for 400 hours. A number of certifications can be earned by taking these courses; it is beneficial to those wanting to work in food service.

Course name: **PRO START I RESTAURANT MANAGEMENT**
Teacher: **Mrs. Berg**
Grade level: **10-12** *Course Fee:* **$20**
Course: **Elective** *Course Code*: **722**
Length of course: **Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: The beginning course, Pro Start I Restaurant Management, is from the National Restaurant Association which introduces students into the world of professional cooking. Basic communication skills, safety and sanitation, food preparation including breakfast food, sandwiches, salads and garnishes, fruits and vegetables, and meal planning, and other topics are taught.

Course name: **PRO START II RESTAURANT MANAGEMENT**
Tech Prep College Credit: Basic Cooking Principles
Teacher: **Mrs. Berg**
Grade level: **10-12** *Course Fee:* **$20**
Course: **Elective** *Course Code*: **723**
*Length of course***: Semester** *Prerequisite:* **Pro Start I**
Number of periods per day: **1** *Credits*: **.50**

Pro Start II Restaurant Management will continue to the second semester with more advanced food preparation skills and employment and customer relations procedures will be included. Food skills include: grain products, desserts and baked goods, meats, seafood, and poultry, soups, Skill certification evaluations will be given for each semester as class standards are completed. The students participate in planning and preparing assembly-line food products for presentation to their parents and school staff. Additional lab experience is also part of this class.

Course name: **PRO START III RESTAURANT MANAGEMENT**
Teacher: **Mrs. Berg**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$20**
Course Code: **557**
Prerequisite: **None**
Credits: **.50**

Description: The third course, Pro Start III Restaurant Management, is from the National Restaurant Association which introduces students to the world of professional cooking and the influences of foods from around the world. Students will review the influences and cuisines of North America, including Mexico. They will then study the cuisines of Central America, the Caribbean, South America, France, Italy, Spain, Morocco, Greece, the Middle East, Japan, China and India and look at how they have influenced cuisines throughout the world. Students will have opportunity to prepare foods from each of the different countries. Students will end the course with some type of food fair that will highlight the foods of the

Course name: **SPECIAL TEXTILE TOPICS**
Teacher: **Mrs. Berg**
Grade level: **11-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Code: **104**
Prerequisite: **None**
Credits: **.50**

Description: This class is designed to work with students' specific interests in the area of quilting. Students will study the history of quilting, and various techniques and methods of quilting. Students will choose a quilting project that will match their sewing experience and the pattern and technique they would like to learn more about. Students are required to pay for their own materials to complete their quilting project. Other needlecraft or sewing projects may be accepted with instructor approval.

Course name: **TEEN ISSUES**
Teacher: **Mrs. Berg or Ms. Koster**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Code: **409**
Prerequisite: **None**
Credits: **.50**

Description: This course is designed to help teenagers improve self-image and self-knowledge. Students will analyze personal strengths and limitations and relate them to individual uniqueness. Students will use the decision making process as they study issues that face today's teen. Areas to investigate and discuss will include interactions with parents, friendships, popularity, dating, communicating with others, and teenage challenges.

HEALTH

Course name: **HEALTH**
Teacher: **Mr. Gieb**
Grade level: **10**
Course: **Required**
Length of course: **Semester**
Number of periods per day: **1**
Course Code: **312**
Prerequisite: **None**
Credits: **.50**

Description: This class is a requirement for graduation. The units covered are: Personal health; mental/emotional health; Consumer health; nutrition and physical activity; diseases and disorders; Body systems; Alcohol, tobacco and other drugs; Relationships and STD/STI's. This class has a focus on decision making and the impact decisions have on a person's life.

MATH

The descriptions of the math courses offered at Pine Island High School are stated below. It is the desire of the math instructors at Pine Island that all students take a math course each year through their senior year. It is best that all students take either Probability/Statistics or AP Statistics during their junior year.

Course name: **ALGEBRA I**
Teacher: **Mr. Hunskor/Mr. Erickson**
Grade level: **9-12**
Course: **Elective**
Length of course: **Year**
Number of periods per day: **1**

NCAA Approved Course
Course Code: **54/55**
MN State Standards Met:
Prerequisite: **Teacher Recommendation**

Credits: **1**

Description: Students need to have a very strong background in Algebra I in order to be successful in all higher level math classes. Some Algebra I topics include the concepts of variables, solving equations, application problems, and graphing.

Course name: **INTERMEDIATE ALGEBRA**
Teacher: **Mrs. Ryan**
Grade level: **9-11**
Course: **Elective**
Length of course: **Year**
Number of periods per day: **1**

Course Code: **310/311**
Prerequisite: **Algebra I**
Credits: **1**

Description: This class is designed for students who have been successful in 8th grade linear Algebra. General topics include exponents, polynomial functions, rational expressions and functions, rational exponents, radicals and complex numbers, quadratic equations and functions.

Course name: **GEOMETRY** *NCAA Approved Course*
Teacher: **Mrs. Kohner**
Grade level: **10-12** *Course Code*: **36/37**
Course: **Elective** *MN State Standards Met:* **Geometry**
Length of course: **Year** *Prerequisite:* **Algebra 1 AND Intermediate Algebra**
Number of periods per day: **1** *Credits*: **1**

Description: Plane Geometry is the study of figures such as triangles, parallelograms, circles, pyramids, cones, etc. You will learn about many new figures and many figures that you are already familiar with. You will learn about ratio, and proportion, areas of figures and how to construct designs using only a compass and a straight edge. The purpose of the course: A) to have an understanding of our natural and artificial environment, B) to improve the ability to think and reason logically, C) to understand an important body of facts necessary to further study in mathematics and related subjects. Geometry is required in most colleges and universities, either directly or indirectly. It is specifically required in the following professions: statisticians, engineers, surveyors, accountants, pharmacists, dentists, medicine, dietitians, scientific research, forestry, teaching and navigation.

Course name: **ADVANCED ALGEBRA** *NCAA Approved Course*
Teacher: **Mr. Hunskor or Mrs. Ryan**
Grade level: **9-12** *Course Code*: **38/39**
Course: **Elective** *MN State Standards Met:* **Alg** *(Completed)*
Length of course: **Year** *Prerequisite:* **Algebra I/Int. Algebra**
Number of periods per day: **1** *Credits*: **1**

Description: Advanced Algebra stresses both the structure of Algebra and the development of computational problem solving skills. Structure and properties of real numbers are reviewed and extended. Problem solving techniques are developed for various types of problems such as those dealing with mixture, uniform motion, percent, and so on. Equations, inequalities, polynomials, functions – linear, quadratic, rational, exponential, and logarithmic are thoroughly treated. Sequences and Series are also covered. A brief treatment of periodic functions and an introduction to Trigonometry will be given as time allows. This course completes the Algebra Standard as required by the state of Minnesota.

Course name: **PROBABILITY AND STATISTICS** *NCAA Approved Course*
Teacher: **Mr. Hunskor**
Grade level: **9-12** *Course Code*: **47**
Course: **Elective** *MN State Standards Met:* **Prob/Stats**
*Length of course***: Semester** *Prerequisite:* **Adv Algebra and Geometry**
Number of periods per day: **1** *Credits*: **.50**

Description: This course introduces students to statistics and methods of gathering and displaying data, and includes frequency distributions, measures of central tendency, variance, mean deviation, normal and nonstandard normal distributions. Fundamentals of probability will be introduced with focus on addition and multiplication rules, combinations and permutations. Binomial experiments, the central limit theorem, and estimating means will be discussed. This course is required by most majors in college and will provide a good background for students planning a college major in business, history, psychology, sociology, science or math.

Course name: **ANALYTICAL GEOMETRY** *NCAA Approved Course*
Teacher: **Mrs. Kohner**
Grade level: **11-12**
Course: **Elective** *Course Code*: **45**
Length of course: **Semester** *Prerequisite:* **Adv Algebra and Geometry**
Number of periods per day: **1** *Credits*: **.50**

Description: Study of absolute value, greatest integer, polynomial, exponential and logarithmic functions, geometric sequences and series. Includes an advanced study of conic sections and polar equations. This course is a necessary preparation for calculus and for those planning to go on to college – especially if considering a math or science type major.

Course name: **TRIGONOMETRY** *NCAA Approved Course*
Teacher: **Mrs. Kohner**
Grade level: **11-12** *Course Code*: **46**
Course: **Elective**
Length of course: **Semester** *Prerequisite:* **Adv Algebra and Geometry**
Number of periods per day: **1** *Credits*: **.50**

Description: Study of trigonometric functions and their graphs, triangle trigonometry, trigonometric identities and inverse trigonometric functions. This course is a necessary preparation for calculus, for those planning a college major in math or the sciences, or for those planning a technical career.

Course name: **AP STATISTICS**
Teacher: **Mr. Hunskor**
Grade level: **11-12** *Course Code*: **738/739**
Course: **Elective** *MN State Standards Met:* **Prob/Stats**
Length of course: **Year** *Prerequisite:* **Advanced Algebra**
Number of periods per day: **1** *Credits*: **1**

Description: This course is an Advanced Placement course in which students may earn college credit upon completion of the class and passing score on the Advanced Placement Test. This course will cover four areas that will be required knowledge for success on the AP Statistics Test. These include Exploring Data (Descriptive Statistics), Sampling and Experimentation (Experimental Design), Probability and Simulation, and Statistical Inference (Inferential Statistics). Upon successful completion of this course, most colleges/universities will accept these credits as completed.

Course name: **CALCULUS** *NCAA Approved Course*
(Southwest State Math Department Course #101)
Teacher: **Mr. Hunskor**
Grade level: **12** *Course Code*: **41/42**
Course: **Elective** *Prerequisite:* **B or above in Trigonometry and Analytical Geometry**
Length of course: **Year**
Number of periods per day: **1** *Credits*: **1**

Description: The Calculus course covers the basic content of a 1st semester college course and more. Students will be given 5 college credits for the course through Southwest State University. This is a full year course. Students are not to drop this class at semester. Topics covered include Limits, Differentiation and its applications, Integration and its applications, and transcendental functions.

Course Name: **COLLEGE PREP MATH**
Teacher: **Mrs. Ryan**
Grade Level: **12** *Class Code:* **1002b/1002c**
Course: **Elective**
Legnth of course: **Year** *Prerequisite*: **Advanced Algebra & Senior**
Number of periods per day: **1** *Credits:* **1**

Description: This course is designed for those students who have taken at least Advanced Algebra and would like to take a math class their senior year to help strengthen their skills for post-secondary education. This class is taught using the ALEKS program. This allows for differentiated learning that will assist students in working on skills necessary for a successful transition to college mathematics.

Course name: **COMPUTER PROGRAMMING**
Teacher: **Mrs. Kohner**
Grade level: **10-12**
Course: **Elective** *Course Code*: **40**
Length of course: **Year** *Prerequisite:* **Geometry. Also, Python experience recommended. Please connect with Mrs. Kohner for more information prior to summer.**
Number of periods per day: **1** *Credits*: **1.0**

Description: This is an introduction course to computer programming. Students will create programs and apps individually and collaboratively. The course provides students with a solid background of standard computer logic, which will enhance problem-solving skills. This course is designed to be a rewarding and fun learning experience for students who have minimal programming experience as well as for the self-proclaimed "techno" experts. Project Lead the Way curriculum will be used which will include the use of Scratch, Python and App Inventor within four main units - Computer Science and Graphics, Web Design and Information Technology, Data Mining, and Software Engineering.

MUSIC

Course name: **CANTATE**
Teacher: **Mr. Jeffrey**
Grade level: **8-9**
Course: **Elective** *Course Code*: **396/397**
Length of course: **Year** *Prerequisite:* **None**
Number of periods per day: **3 per week** *Credits*: **.50**

Description: Cantate is a choral ensemble consisting of students in grades 8-9. Instruction will focus on building vocal technique, part independence, ensemble skills, and music reading/aural skills using a variety of music. In addition to rehearsals, students are expected to attend scheduled group lessons outside of class. Concerts are given throughout the year and attendance at these events is mandatory.

Course name: **CONCERT BAND**
Teacher: **Mrs. Hoppe**
Grade level: **8-9**
Course: **Elective** *Course Code:* **162/163**
Length of course: **Year** *Prerequisite:* **None**
Number of periods per day: **2 per week** *Credits:* **.50**

Description: This ensemble consists of students in grades 8-9. Instruction will focus on instrumental technique and music reading skills. Concerts are given throughout the year and attendance at these events is mandatory. In addition to rehearsals, students are expected to attend scheduled group lessons outside of class. Students are also given the opportunity to participate in pep band and jazz band.

Course name: **SINFONIA ORCHESTRA**
Teacher: **Mr. Mish**
Grade level: **8-9**
Course: **Elective** *Course Code*: **226/227**
Length of course: **Year** *Prerequisite:* **None**
Number of periods per day: **2-3 per week** *Credits*: **.50**

Description: The Sinfonia Orchestra is open to students to perform a broad variety of music in both orchestra and biweekly group lessons. Concerts are given throughout the year and attendance at these events is mandatory. A performance project involving a solo performance is required during the second semester. Students will gain fluency in shifting, vibrato, and intermediate bowings in preparation for the Symphony Orchestra.

Course name: **CONCERT CHOIR**
Teacher: **Mr. Jeffrey**
Grade level: **10-12**
Course: **Elective** *Course Code*: **166/167**
Length of course: **Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: Concert Choir performs a wide variety of high quality choral literature. Instruction will focus on more advanced vocal techniques, improving part-independence, advanced ensemble skills, and improving music reading/aural skills. Students in Concert Choir rehearse daily and are required to attend individual lessons outside of class. Concerts are given throughout the year and attendance at these events is mandatory. Students also have the opportunity to participate in various extra-curricular choral ensembles and to perform as soloists or in small groups. Students are expected to attend a choir retreat scheduled early in the fall.

Course name: **SYMPHONY ORCHESTRA**
Teacher: **Mr. Mish**
Grade level: **10-12**
Course: **Elective** *Course Code*: **164/165**
Length of course: **Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: Students should have fluency in shifting, vibrato, and intermediate bowings. Students will perform a broad variety of music in both orchestra and small ensemble settings. Students are required to sign-up for and attend two lessons per quarter. Concerts are given throughout the year and attendance at these events is mandatory. A performance project involving a small ensemble is required during the second semester. Through these performances, students will develop a better understanding of music literature, history, and theory.

Course name: **WIND ENSEMBLE**
Teacher: **Mrs. Hoppe**
Grade level: **10-12**
Course: **Elective** *Course Code:* **160/161**
Length of course: **Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits:* **1**

Description: Students in this ensemble meet daily. The group performs a wide variety of literature, with emphasis placed on high quality concert band literature. Concerts are given throughout the year and attendance at these events is mandatory. Students are required to attend individual lessons outside of class. They are also given the opportunity to participate in various extra-curricular performing ensembles. Pep band is a required activity (see the instructor for exceptions).

PHYSICAL EDUCATION

Course name: **PHYSICAL EDUCATION I**
Teacher: **Mrs. Aeikens, Mr. Gieb, Mr. Nelson**
Grade level: **9-12**
Course: **Required** *Course Code*: **172/173**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Physical Education I consists of a number of physical and lifetime fitness activities during the semester. Students could participate in activities including but may not be limited to: FitnessGram Physical Fitness Testing, flag football, soccer, archery, strength training, volleyball, dance, team handball, badminton and a variety of recreational games. Students will learn the proper way to warm up and stretch prior to exercise. Physical Education I meets every day for one semester. This course is required for graduation.

Course name: **PHYSICAL EDUCATION II**
Teacher: **Mrs. Aeikens, Mr. Gieb, Mr. Nelson**
Grade level: **9-12**
Course: **Required** *Course Code*: **174/175**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Physical Education II consists of a number of physical and lifetime fitness activities during the semester. Students could participate in activities including but may not be limited to: FitnessGram Physical Fitness Testing, flag football, soccer, archery, strength training, volleyball, dance, team handball, badminton and a variety of recreational games. Students will learn the proper way to warm up and stretch prior to exercise. Physical Education II meets every day for one semester. This course is required for graduation.

Course name: **ADVANCED PHYSICAL EDUCATION (Replaces Weight Training)**
Teacher: **Mr. Nelson/Staff**
Grade level: **11-12**
Course: **Elective** *Course Code*: **847**
*Length of course***: Semester** *Prerequisite:* **PE 2 or Instructor Approval**
Number of periods per day: **1** *Credits*: **.50**

Description: This course is designed to give the student exposer to a wide variety of lifetime sports activities. Students will participate in many indoor and outdoor activities. Some of the outdoor activities will be conducted during the winter season so students are required to bring and wear appropriately warm clothing. There may be some fees that come along with some of these activities as well.
Sports/activities that MAY be included but are not limited to the semester long course are:
Indoor: Strength and Fitness Training; Badminton; Volleyball; Bowling; Aerobic activity; Dance; Recreational Games; etc…
Outdoor: Archery; Golf; Tennis; Frisbee Golf; Biking; Canoeing; Fishing; X-Country Skiing; Broomball; Trapshooting; etc….

SCIENCE

Course name: **PHYSICAL SCIENCE 9**
Teacher: **Mr. Dewey**
Grade level: **9**
Course: **Required**
*Length of course***: Year**
Number of periods per day: **1**

NCAA Approved Course

Course Code: **74/75**
Prerequisite: **None**
Credits: **1**

Description: This is an introductory level course required for graduation. The first semester of physical science focuses on the chemistry aspect of physical science during first semester. Students will be expected to maintain a lab notebook. Labs and discussion are based on chemistry concepts such as the relationships between mass, volume, and density, graphing data, properties of matter, atomic structure, periodic table of the elements, chemical bonding, chemical reactions, and acid/base chemistry.

The second semester of physical science focuses on the physics aspect of physical science. Labs and discussion are based on physics concepts such as motion, forces, energy, electricity, and magnetism. Students will also be asked to use problem solving skills to mathematically work through labs and homework.

Course name: **BIOLOGY**
Teacher: **Ms. Schimek**
Grade level: **10**
Course: **Required**
*Length of course***: Year**
Number of periods per day: **1**

NCAA Approved Course

Course Code: **58/59**
Prerequisite: **Passing grade for at least one semester of Physical Science**
Credits: **1**

Description: Biology is an elective course that is designed to engage students in the significant concepts of biology. This is a rigorous course. Students planning on college should take this course. The topics studied in this course include life characteristics and life processes, basic chemistry and biochemistry, cell anatomy and physiology, energy conversion, molecular and Mendelian genetics, evolution, and human anatomy which will include a fetal pig dissection.

Course name: **CHEMISTRY** *NCAA Approved Course*
Teacher: **Mr. Erickson**
Grade level: **11-12**
Course: **Elective** *Course Code*: **62/63**
*Length of course***: Year** *Prerequisite:* **Algebra I**
Number of periods per day: **1** *Credits*: **1**

Description: Chemistry is a study of the composition and properties of various forms of matter and the changes they undergo. This course is designed to provide students with a basic knowledge of the chemical world. The course will center around the language of chemistry. The topics will include: classification of matter, the structure of matter, periodicity, chemical bonding, writing of chemical formulas and equations, stoichiometry, gases, solutions and an introduction to organic chemistry. Because chemistry is an experimental science, the students will be given as much opportunity as possible to develop concepts from their own lab experiments. As much practical application of the day to day use of chemistry will be stressed along with basic theory for the student interested in post high school education. Students considering careers that require math or science such as agriculture, engineering, technology, or any allied health related field should take this class. Algebra I is a prerequisite for the course and Algebra II is recommended.

Course name: **CHEMISTRY IN THE COMMUNITY**
Teacher: **Mr. Erickson**
Grade level: **11-12**
Course: **Elective** *Course Code*: **21/22**
*Length of course***: Year** *Prerequisite:* **Biology**
Number of periods per day: **1** *Credits*: **1**

Description: Chemistry in the Community (Chem Com) is a chemistry curriculum written for secondary school students by the American Chemical Society (ACS). It attempt to enhance science literacy by emphasizing chemistry's impact on society. It is aimed at the student who will become a citizen but not necessarily a scientist in a technological society.

Chem Com takes a different approach to the learning of chemistry. Each of the units revolves around a societal question. This question creates a need to know chemistry to find a solution. The context of each question is a community: local, workplace, national, or global. The chemistry presented to the students builds upon the same vocabulary, thinking skills, problem solving and lab techniques as most traditional introductory chemistry courses. However in Chem Com the student is lead to integrate what they have learned to see how it addresses issues in the real world. This is accomplished through many decision making activities that are a part of the course. It is the long term goal of the curriculum to present to the students the need and the skills to acquire technical knowledge to make intelligent decisions for themselves and for the communities in which they belong.

Course name: **PHYSICS** *NCAA Approved Course*
Teacher: **Mr. Dewey**
Grade level: **11-12**
Course: **Elective** *Course Code*: **64/65**
*Length of course***: Year** *Prerequisite:* **Algebra II**
Number of periods per day: **1** *Credits*: **1**

Description: The objectives of our high school physics program is to give the students background in areas such as one and two dimensional kinematics, forces and motion, circular motion, waves, optics, electricity, and magnetism. These topics are approached with lab exercises, discussion, and problem solving. Students will be expected to maintain a lab notebook and prepare formal lab reports. This is a college preparatory course which also focuses on providing an environment where students are expected to act and function as more independent and mature adults.

It is recommended, but not required that a student have taken trigonometry or be currently enrolled in the course as some of the problem solving learned requires knowledge in this context.

*****This can also be taken as a College Now course. Students have the opportunity to earn 4 liberal arts credits through SMSU if they are accepted into the program.** The course will be the same for all students regardless of if they are taking it for college credit or not. **TO TAKE THIS COURSE FOR COLLEGE CREDIT – SIGN UP FOR COLLEGE PHYSICS, COURSE CODES: 64a/65a**

*****PROJECT LEAD THE WAY COURSES: MUST BE TAKEN IN SEQUENCE**

Course name: **PLTW Principles of Biomedical Sciences** *NCAA Approved Course*
Teacher: **Ms. Schimek**
Grade level: **9-10 Instructor Approved**
11-12 *Course Code*: **391-392**
Course: **Elective** *Prerequisite:* **Biology or Instructor Approval**
*Length of course***: Year**
Number of periods per day: **1** *Credits*: **1**

Description: This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of disease is related to changes in human body systems. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes and allow students to design experiments to solve problems. Key biological concepts including maintenance of homeostasis in the body, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. This course is designed to provide an overview of all the courses in the biomedical sciences program and lay the scientific foundation for subsequent courses.

Course name: **PLTW Human Body Systems** *NCAA Approved Course*
Teacher: **Ms. Schimek**
Grade level: **11-12**
Course: **Elective** *Course Code*: **692/693**
Length of course: **Full Year** *Prerequisite:* **Biology, PLTW PBS**
Number of periods per day: **1** *Credits*: **1**

Description: In this course, students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

SOCIAL STUDIES

Course name: **U.S. HISTORY 9** *NCAA Approved Course*
Teacher: **Mr. Tessler**
Grade level: **9**
Course: **Required** *Course Code*: **34/35**
*Length of course***: Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: U.S. History covers the spectrum of American history from pre-Columbian days to the present. Using chronological and thematic approaches to the material, the course exposes students to extensive primary and secondary sources and to the interpretations of various historians. Class participation through writing, discussions, debates, and role-playing activities is required; special emphasis is placed on critical reading and essay writing to help students prepare for future examinations. The course is structured chronologically, divided into 34 Chapters.

Course name: **WORLD HISTORY 10** *NCAA Approved Course*
Teacher: **Mr. McPhail**
Grade level: **10**
Course: **Required** *Course Code*: **25/26**
*Length of course***: Year** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **1**

Description: This is a year long study of World History using a thematic approach to the study of the history of the world from the beginning of recorded time to the present. Particular emphasis is placed on economic, social, and political developments that have shaped our world, society, and our culture. The classroom experience will be largely content based providing a background and context to those themes. Students will be required to put together and maintain a portfolio of their work that is done in the class throughout the year.

Course name: **ECONOMICS** *NCAA Approved Course*
Teacher: **Mr. Stapleton**
Grade level: **11-12**
Course: **Required** *Course Code*: **30**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: A modern social studies class which will examine the fundamentals of economics and personal finance, as well as an examination of the mankind's attempts to satisfy seemingly unlimited wants, with limited resources. Students will learn to find their role in our economy and explore the economic opportunities open to them.

Course name: **GOVERNMENT/CITIZENSHIP** *NCAA Approved Course*
Teacher: **Mr. Stapleton**
Grade level: **11-12**
Course: **Required** *Course Code*: **29**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This class is designed to cover a variety of topics and skills necessary for participation in our democratic system. All levels of government from local to national will be studied. An emphasis will be placed on how government impacts the lives of students, and how they can participate in the legislative process.

Course name: **GLOBAL STUDIES** *NCAA Approved Course*
Teacher: **Mr. Tessler**
Grade level: **11-12**
Course: **Elective** *Course Code*: **603**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Global Studies will introduce students to important geographical terms and concepts through the study of different regions. Students will study Latin America, Europe, Russia and the Central Asian Republics, South and East Asia, Sub Saharan Africa, and the Middle East. During each unit students will explore the physical, economic, and cultural geography of the region, and examine the current issues that impact the people living in these regions. This course meets the entrance requirements of the MnScu and the University of Minnesota system.

Course name: **HUMAN GEOGRAPHY** *NCAA Approved Course*
Teacher: **Mr. Tessler**
Grade level: **11-12**
Course: **Elective** *Course Code*: **602**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Human Geography will introduce students to important geographical terms and concepts using a thematic approach to understanding the elements of culture. Students will study themes of population, migration, language, and religion. As students explore each theme, they will learn about the origins, diffusion, and distribution of each cultural element, while using geographical skills to analyze the ways in which humans have interacted with their cultural and natural environment at various times. This course meets the entrance requirements of the MnScu and the University of Minnesota system.

Course name: **AP HUMAN GEOGRAPHY** *NCAA Approved Course*
Teacher: **Mr. McPhail**
Grade level: **10-12**
Course: **Elective** *Course Code*:
*Length of course***: Year** *Prerequisite:*
Number of periods per day: **1** *Credits*: **1**

AP Human Geography is a year-long course which is intended to meet or exceed the introductory one-semester human geography course offered at colleges and universities. The purpose of the course is to introduce students to the orderly study of the spatial analysis of the human population, their cultures, activities, and landscapes, (deBlij, 2011). The goals of the course follow the National Geography Standards enabling students, upon successful completion of the course, to:

1. Use and think about maps and spatial data sets.
2. Understand the spatial perspective and be able to make associations among phenomena in specific places.
3. Recognize and interpret the relationship among patterns and processes at different scales.
4. Define regions and evaluate the regionalization process.
5. Characterize and analyze changing interconnections among places.

Note: The level of academic rigor in an Advanced Placement course is higher than students may be used to. Remember, the curriculum requirements for Human Geography reflects what the College Board deems to be appropriate college-level study. Students will be constantly exposed to information, expectations, and methods that embody a collegiate atmosphere. In conclusion, it is important for all students to understand the commitment required for success in this course.

Course name: **ATTITUDE AWARENESS**
Teacher: **Mr. McPhail**
Grade level: **11-12**
Course: **Elective** *Course Code*: **27**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This course is a personal improvement and human relations class that will cause a student to become aware of his attitudes and self-concepts through sharing with others his feelings and thoughts. There are many other objectives including: inner strength, personal effectiveness, increased ability to relate to others, self-motivation, leadership and in general a more positive attitude about life. Other characteristics should be developed that will enable the student to fulfill his life experience to a greater extent than may have been previously realized.

Course name: **CONSTITUTIONAL ISSUES**
Teacher: **Mr. Stapleton/Staff**
Grade level: **10-12**
Course: **Elective** *Course Code*: **679**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Constitutional Issues seeks to introduce students to more relevant issues regarding their constitutional rights than what they had time to cover in the Government and Citizenship class. A large portion of the class will focus on debate and discussion of issues that appear in day to day current events along with a large portion of the class dedicated to examining current and historical Supreme Court case decisions. A special emphasis will be placed on Supreme Court decisions that impact students in their day to day lives.

Course name: **PSYCHOLOGY (Offered 2017-18)** *NCAA Approved Course*
Teacher: **Mr. Stapleton**
Grade level: **11-12**
Course: **Elective** *Course Code*: **28**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: This semester course develops an understanding of some basic theories of human behavior and development. Course content is designed to meaningfully apply psychological data to current lifestyles. (Offered every other year opposite Sociology).

Course name: **SOCIOLOGY (Offered 2018-19)** *NCAA Approved Course*
Teacher: **Mr. Stapleton**
Grade level: **11-12**
Course: **Elective** *Course Code*: **276**
*Length of course***: Semester** *Prerequisite:* **None**
Number of periods per day: **1** *Credits*: **.50**

Description: Sociology is the scientific study of human groups and the structure and function of groups and the relations between groups. Students will learn to better understand human nature, human needs, and the relation between the environment and personality development. This course is intended to involve students in the social problems of their times, and also the possibility of sociology as a career. (Offered every other year opposite Psychology).

TECHNOLOGY & ENGINEERING

Course name: **AUTOMOTIVE MECHANICS**
Teacher: **Mr. Baker**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$25**
Course Code: **833**
Prerequisite: **Must possess valid MN Driver's License**
Credits: **.50**

Description: This class will provide each student with an overview of personal automotive maintenance principles. Topics include proper maintenance for longevity, resale value, and safety; how vehicle systems work; and how to complete some light vehicle repairs. The main systems that make up the automobile will be explored and a lab activity will follow each unit. The course fee covers the cost of one oil change and to cover miscellaneous supplies used in the course.

Course name: **BODY RESTORATION**
Teacher: **Mr. Baker**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **5**
Prerequisite: **None**
Credits: **.50**

Description: Students will gain hands on experience restoring a vehicle's exterior. Simple steel/tin work, tire replacement, accessories, and paint prep and finish will be covered. The project vehicle and all materials will be covered by the school.

Course name: **Computer Integrated Manufacturing (CIM) - PLTW**
Teacher: **Mr. Baker**
Grade level: **10-12**
Course: **Elective**
Length of course: **Year**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **849/850**
Prerequisite: **None**
Credits: **1**

Description: Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a factory system.

Course name: **ENGINES**
Teacher: **Mr. Baker**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **839A**
Prerequisite: **None**
Credits: **.50**

Description: Students will be introduced to engine operation and theory with both 2 and 4 stroke engines. A full teardown and rebuild will be accomplished before moving on to troubleshooting and maintenance. Students will be provided with all materials, the course fee will cover miscellaneous shop supplies and cost of the electronics project.

Course name: **EXPLORING TECHNOLOGIES**
Teacher: **Mr. Baker**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$15**
Course Code: **33**
Prerequisite: **None**
Credits: **.50**

Description: This course will include the study of transportation, manufacturing, communication, and construction systems and processes. Topics will include; computer-aided design, additive and subtractive manufacturing processes, robotics, and fabrication. A take home project will accompany each of the areas of study. Exploring technologies is a program open to all students in all grade levels, but should not be taken by students who have taken several Technology and Engineering courses.

Course name: **Introduction to Engineering Design (IED) - PLTW**
Teacher: **Mr. Baker**
Grade level: **9-12**
Course: **Elective**
Length of course: **Year**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **844/845**
Prerequisite: **None**
Credits: **1**

Description: Introduction to Engineering Design (IED) is for students who are interested in design and engineering or another technical career. The major focus of the IED course is to expose students to a design process, professional communication and collaboration methods, and technical documentation. IED gives students the opportunity to develop skills in research and analysis, teamwork, technical writing, engineering graphics, and problem solving through activity-, project-, and problem-based learning. Students will use industry standard 3D solid modeling software to facilitate the design and documentation of their solutions to design problems and challenges. As the course progresses and the complexity of the design problems increase students will learn more advanced computer modeling skills as they become more independent in their learning, more professional in their collaboration and communication, and more experienced in problem solving.

Course name: **MECHANICAL RESTORATION**
Teacher: **Mr. Baker**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **6**
Prerequisite: **None**
Credits: **.50**

Description: Students will gain hands on experience restoring a vehicle's mechanical parts. Engines, transmissions, brakes, and chassis repair will be the main repairs. The project vehicle and all materials will be covered by the school.

Course name: **METALS MANUFACTURING I: GENERAL METALWORKING**
Teacher: **Mr. Baker**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$25**
Course Code: **836**
Prerequisite: **None**
Credits: **.50**

Description: This course will give the student an overview of; basic machine tools, measurement and inspection systems, layout and bench work, metallurgy and heat treating, SMAW, GMAW and OFW welding processes, G-Code programming, and CNC machining. It will also cover safety practices and accident prevention. Students will build four projects that they will take home upon completion.

Course name: **PLTW- Principles Of Engineering (POE)**
Teacher: **Mr. Mainhardt**
Grade level: **10-12**
Course: **Elective**
Length of course: **Year**
Number of periods per day: **1**
Course Fee: **None**
Course Code: **846/848**
Prerequisite: **None (IED Highly recommended)**
Credits: **1**

Description: Principles Of Engineering (POE) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech career POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning.
To be successful in POE, students should be concurrently enrolled in college preparatory mathematics and science. Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Course name: **METALS MANUFACTURING II: ADVANCED METALWORKING**
Teacher: **Mr. Baker**
Grade level: **10-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$25**
Course Code: **837**
Prerequisite: **METALS I**
Credits: **.50**

Description: Metals Manufacturing II will provide an opportunity for students to apply the skills gained in Metals I to a project of the students choosing. (The project must be approved by the instructor) Students will be responsible for acquiring their project materials on their own, with the exception of welding supplies, and other consumable supplies in the metals shop such as sandpaper, paint, and metal that is on hand.

Course name: **TIMBER MANUFACTURING I: GENERAL WOODWORKING**
Teacher: **Mr. Baker**
Grade level: **9-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$25**
Course Code: **838**
Prerequisite: **None**
Credits: **.50**

Description: Timber Manufacturing I is all about learning about how wood is used in the manufacturing industry. Students will simulate the manufacturing industry from every angle; you will start from the ground floor learning about wood and why we use it, then we'll move onto basic woodworking machines and how to operate them safely. The first item we will produce will be made and designed entirely by the student, using Autodesk Inventor students will create drawing files of their item and then will take those into the Woods Lab where they will manufacture their own small wooden product. Students will then step it up a notch and use Autodesk Inventor to create their own custom design that they will cut out on the CNC machine for use in their final project. Students will build three projects that they will take home upon completion. The cost for these projects is in the course fee.

Course name: **TIMBER MANUFACTURING II: ADVANCED WOODWORKING AND CABINETMAKING**
Teacher: **Mr. Baker**
Grade level: **11-12**
Course: **Elective**
Length of course: **Semester**
Number of periods per day: **1**
Course Fee: **$50**
Course Code: **841**
Prerequisite: **TIMBER MANUFACTURING I**
Credits: **.50**

Description: This advanced course is for motivated students who have an interest in the woodworking industry. We will concentrate heavily on reading blue prints and being able to estimate materials for products. The CNC router and other machines will be used to streamline the manufacturing process. Students will build two projects to be covered with the course fee, independent project size and types of materials will determine additional costs in the course.

WORLD LANGUAGE

Course name: **SPANISH I**
Teacher: **Mrs. Wernau / Ms. Zielinski**
Grade Level: **9-12**
Course: **Elective**
Length of Course: **Year**

NCAA Approved Course

Course Code: **84/85**
Prerequisite: **None**
Credits: **1**

Description: This beginner level course will cover all facets of the Spanish language including reading, writing, listening, speaking, and culture. While not technically an immersion class, instruction will focus around the "comprehensible input" technique in which students will spend up to 90% of class time interacting in meaningful, comprehensible Spanish conversation and stories. The end goal will be for students to "acquire" Spanish rather than to learn it.

Course name: **SPANISH II**
Teacher: **Mrs. Wernau / Ms. Zielinski**
Grade Level: **9-12**
Course: **Elective**
Length of Course: **Year**

NCAA Approved Course
Course Code: **86/87**
Prerequisite: **Spanish 1 with a grade of C- or better**
Credits: **1**

Description: This is a continuation of the beginner level course that will cover all facets of the Spanish language including reading, writing, listening, speaking and culture. While not technically an immersion class, instruction will focus around the "comprehensible input" technique in which students will spend up to 90% of class time interacting with meaningful, comprehensible Spanish. The end goal will be for students to "acquire" Spanish rather than to learn it. This course will build upon prior knowledge gained in Spanish I.

Course name: **SPANISH III AND IV (Southwest State Foreign Language Course #201/202)**
Teacher: **Mrs. Wernau** *NCAA Approved Course*
Grade level: **11-12**
Course: **Elective** *Course Code:* **88/89, 267/268**
Length of course: **Year** *Prerequisite:* **C- or better in Spanish 2 & 3**
Number of periods per day: **One** Credits: **1 (4 college credits in each level)**

Description: Students earn 4 college semester credits from Southwest State University in each level by successfully completing course requirements. To qualify for the college portion of these classes, students must meet the following requirements: Juniors must have a 3.0 minimum G.P.A. and be in the top third of their class. Seniors must have a 3.0 minimum G.P.A. and be in the top half of their class. Students who want to register for this course and do not meet these requirements should see Mrs. Wernau for a recommendation. This is a continuation of the Spanish 2 course that will cover all facets of the Spanish language including reading, writing, listening, speaking and culture. While not technically an immersion class, instruction will focus around the "comprehensible input" technique in which students will spend up to 90% of class time interacting with meaningful, comprehensible Spanish. The end goal will be for students to "acquire" Spanish rather than to learn it. This course will build upon prior knowledge gained in Spanish I and II (and III for level IV). The course objectives for these courses are as follows:

- Speak Spanish well enough to ask and answer questions about a variety of topics and beyond those needed simply to survive in the foreign culture
- Understand Spanish well enough to grasp the main ideas and some supporting details of a variety of topics (both spontaneous and recorded)
- Read and understand many details of both literary and non-literary texts
- Write longer and more cohesive journals than you wrote as a beginner
- Gain a greater understanding of Hispanic cultures and a better awareness of the cultural implications of written, visual, and virtual texts
- Master the basic grammatical structures and have a better understanding of how Spanish works as a language.

TEACHER AIDE

*Course Name***: TEACHER AIDE**
Teacher: **Staff**
Grade Level: **9 – 12** *Course Code:* **13/213**
Length of course: **semester** *Prerequisite:* **Teacher permission**
Number of periods: **1** *Credit:* **.25**

Description: Students may be an aide for a teacher or secretary with permission from the person supervising the aide. The student is expected to meet with the supervisor each day during the semester they are scheduled. Teachers may only have one aide per hour, two aides per semester maximum. It is expected that the student is assigned daily work to do for the teacher or to be given specific tasks to complete each day. Students need to meet with the counselor to discuss this option for credit and they need to make arrangements with the teacher they plan to work with prior to registering for a teacher aide position.