

**CLASS  
DESCRIPTION  
BOOKLET**

**2011-2012**



**PINE ISLAND  
HIGH SCH**

# INDEX

## **REGISTRATION INFORMATION** Page

General Recommendations. . . . .	I
Graduation Requirements – 2012 + Graduates . . . . .	II
Southwest State University College Now Program. . . . .	III
NCAA Approved Courses. . . . .	IV

### **Course Fees**

ProStart I&II, Sculpture, Ceramics I&II	\$20.00
Advanced Metals, Advanced Woodworking, Carpentry, Media Arts, Painting I&II, Power Mechanics	\$15.00

## **COURSES**

Agriculture . . . . .	3-5
Art. . . . .	6-8
Business . . . . .	9-12
English. . . . .	13-15
Family and Consumer Services . . . . .	16-19
Foreign Language . . . . .	20-21
Health . . . . .	22
Math . . . . .	23-26
Music . . . . .	27-28
Physical Education. . . . .	29
Science . . . . .	30-34
Social Studies . . . . .	35-37
Technology & Engineering . . . . .	38-40
Teacher Aide. . . . .	41

## GENERAL RECOMMENDATIONS

1. Students considering college or fields of technology are encouraged to take advanced classes up through Analytic Geometry, Trigonometry, and Calculus. Students must satisfy the requirement by taking either Geometry or Advanced Algebra in grade 10 or above.
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.
3. Industrial arts, family life sciences, and agriculture classes are open to all students. However, advanced classes at the senior high level may require that you have taken the prerequisite class first.
4. All students in grades 9-10 will be required to take at least seven (7) credits and students in grades 11-12 will be required to take at least six point five (6.5) credits per year unless special arrangements are approved through the High School Principal.
5. Students may earn .25 credit by working for a teacher or secretary 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 as many colleges require a foreign language.
7. The following requirements should be fulfilled to attend any four-year Minnesota college. These apply to grades 9-12.

**GRADUATION REQUIREMENTS: CLASS OF 2012 +**

To graduate from Pine Island High School students must successfully complete a minimum of 26 credits in courses listed in this registration guide or approved by the administration. Seventeen and three quarter credits must be specified course areas with the remaining credits composed of electives chosen by each student. In addition to these course requirements the student must pass the Minnesota Comprehensive Assessment tests in reading, mathematics and Writing.

**ENGLISH**

English 9	1 Credit _____
English 10	1 Credit _____
English 11	1 Credit _____
English 12	1 Credit _____
<b>TOTAL ENGLISH</b>	<b>4 Credits _____</b>

**SOCIAL STUDIES**

U.S. History 9	1 Credit _____
World History 10	1 Credit _____
Government & Citizenship	.50 Credit _____
Economics & Environment	.50 Credit _____
World/Cult or Phys/Reg Geography	.50 Credit _____
<b>TOTAL SOCIAL STUDIES</b>	<b>3.50 Credits _____</b>

**SCIENCE**

Physical Science 9	1 Credit _____
Biology	1 Credit _____
Elective	1 Credit _____
<b>TOTAL SCIENCE</b>	<b>3.0 Credits _____</b>

**MATH**

- Algebra I	1 Credit _____
- Advanced Algebra	1 Credit _____
- Geometry	1 Credit _____
- Probability and Statistics	.5 Credit _____
<b>TOTAL MATH</b>	<b>3.5 Credits _____</b>

**ARTS**

Band, Choir, Orchestra, or Visual Art	1 Credit _____
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**FAMILY AND CONSUMER SCIENCE**

Living Skills for Today	.5 Credit _____
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**PHYSICAL EDUCATION/HEALTH**

PE 9	.5 Credit _____
PE 10	.5 Credit _____
HEALTH 10	.5 Credit _____

**BUSINESS**

Personal Computer Applications	.5 Credit _____
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<b>SUBTOTAL</b>	<b>17 .50 Credits</b>
Additional Electives	<u>8 .50 Credits</u>

**Total Credits for Graduation 26**

## **SOUTHWEST STATE UNIVERSITY “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 Challenge 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?**

English:	Introduction to Literature Essentials of Speaking and Listening
Math:	Calculus
Foreign Language:	Spanish 3 Spanish 4

### **Advanced Placement Courses:**

Pine Island High School offers Advanced Placement (AP) courses in Biology, Statistics and Environmental Science. 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.

### **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.

### **Post Secondary Credit Options at Pine Island High School:**

Pine Island High School currently offers 30 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.

### **Graduation Focus and Career Pathway:**

Pine Island High School will be offering students the ability to choose a Career Pathway or focus as they go through high school. Upon completion of the program the student will receive recognition as a Certificate of Completion of the program of their choice. The student will start exploring education, careers, and pathways to employment in grade 9 and 10 so that during their junior year they will be able to select the Career pathway of their choice. Currently the 6 pathways will be as follows.

- Arts, Humanities & Communications
- Business, Management, Information Services & Administration
- Medical and Health Services
- Community & Human Services
- Engineering, Manufacturing, & Technology Sciences
- Agriculture, Environmental Science, & Natural Resource Sciences

The student will also select the level of education they will be focusing on and type of career that education will get them. Level 1 would be for Entry level or On-the-Job Training., Level 2 would be one or two year college education, Level 3 would be education to gain entrance to a Four year College or University. For example; if a student wants to work on a light assembly line, their Career Pathway would be Engineering, Manufacturing, & Technology Sciences Level 1. The certificate of completion the student would receive at graduation would look something like the one below. The student would now have a certificate of accomplishment which would show the career path and focus of their high school education. Hopefully the student will be able to internalize the need and drive for education when they have made conscious decisions about their future. This certificate would be in addition to the standard High School Diploma and it is an encouraged option for students, not a requirement.

<p>Kevin Cardille</p> <p>Engineering, Manufacturing, &amp; Technology Sciences</p> <p><input checked="" type="checkbox"/> Level 1: Entry level or On-the-Job Training</p> <p><input type="checkbox"/> Level 2: One or Two-year College</p> <p><input type="checkbox"/> Level 3: Four-year College or University</p>
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### **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](http://www.NCAA.org) . To view the Clearinghouse website where our approved courses are listed view, [www.ncaaclearinghouse.net](http://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.)



*Look for the Tech Prep symbol as you go through the class description booklet. Those are the courses where Advanced Standing/Tech Prep Certifications are available.*

<b>Course:</b>	<b>Tech Prep Certificate:</b>	<b>Participating Colleges:</b>
Media Arts	Introduction to Adobe Photoshop	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College – Hutchinson and Willmar</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – North Mankato</li> </ul>
Web Design and Desktop Publishing	Desktop Publishing	<ul style="list-style-type: none"> <li>• Minnesota State College – Southeast Technical Red Wing</li> <li>• Minnesota West Community and Technical College – Jackson</li> <li>• Ridgewater College – Hutchinson and Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – Faribault</li> <li>• South Central College – North Mankato</li> </ul>
<b>Career Pathway: Business, Management and Administration</b>		
<b>Course:</b>	<b>Tech Prep Certificate:</b>	<b>Participating Colleges:</b>
Accounting <i>(Need Full Year)</i>	Principles of Bookkeeping	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Inver Hills Community College, Inver Hills Campus</li> <li>• Minnesota West Community and Technical College - Jackson</li> <li>• Ridgewater College-Hutchinson and Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central Technical College - Faribault and North Mankato</li> </ul>
Entrepreneurship	Entrepreneurship	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College – Hutchinson and Willmar</li> <li>• South Central College – North Mankato</li> </ul>
Advanced Computer Applications - Word	Advanced Word Processing	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Inver Hills Community College – Inver Grove Heights</li> <li>• Minnesota State College – Southeast Technical Winona</li> <li>• Minnesota West Community and Technical College – Jackson</li> <li>• Ridgewater College – Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – Faribault and North Mankato</li> </ul>
Advanced Computer Applications - Word	Beginning Word Processing	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Inver Hills Community College – Inver Grove Heights</li> <li>• Minnesota State College – Southeast Technical Winona</li> <li>• Minnesota West Community and Technical College – Jackson</li> <li>• Ridgewater College – Willmar</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – Faribault and North Mankato</li> </ul>
Advanced Computer Applications - Word	Keyboarding	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Minnesota State College – Southeast Technical Winona</li> <li>• Minnesota West Community and Technical College – Jackson</li> <li>• Ridgewater College – Hutchinson and Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – Faribault and North Mankato</li> </ul>
Advanced Computer Applications - Word	Keyboarding for Computers	<ul style="list-style-type: none"> <li>• Dakota County and Technical College</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – Faribault and North Mankato</li> </ul>
Advanced Computer Applications – Excel/PowerPoint	Excel	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Inver Hills Community College – Inver Grove Heights</li> <li>• Riverland Community College – Albert Lea</li> <li>• South Central College – North Mankato</li> </ul>
<b>Career Pathway: Business, Management and Administration Continued...</b>		
<b>Course:</b>	<b>Tech Prep Certificate:</b>	<b>Participating Colleges:</b>
Advanced Computer Applications – Excel/PowerPoint	PowerPoint	<ul style="list-style-type: none"> <li>• Inver Hills Community College – Inver Grove Heights</li> <li>• Minnesota State College – Southeast Technical Red Wing</li> <li>• Minnesota West Community and Technical College – Jackson</li> </ul>

		<ul style="list-style-type: none"> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – Faribault and North Mankato</li> </ul>
<b>Career Pathway: Health and Human Services</b>		
<b>Course:</b>	<b>Tech Prep Certificate:</b>	<b>Participating Colleges:</b>
Child Development: The First Year Child Development: The Preschool Years <i>(Need to complete both courses.)</i>	Foundations of Child Development	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Minnesota State College – Southeast Technical Red Wing</li> <li>• Minnesota West Community and Technical College – Granite Falls</li> <li>• Ridgewater College – Hutchinson</li> <li>• Rochester Community &amp; Technical College</li> <li>• Saint Paul College</li> <li>• South Central College – Faribault and North Mankato</li> </ul>
ProStart II Restaurant Management	Basic Cooking Principles	<ul style="list-style-type: none"> <li>• South Central Technical College – North Mankato</li> </ul>
<b>Career Pathway: Engineering, Manufacturing and Technologies</b>		
<b>Course:</b>	<b>Tech Prep Certificate:</b>	<b>Participating Colleges:</b>
CAD II	Basic AutoCAD	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College – Hutchinson and Willmar</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – North Mankato</li> </ul>
Power Mechanics I	Basic Engine Performance	<ul style="list-style-type: none"> <li>• Ridgewater College – Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – North Mankato</li> </ul>
Power Mechanics I	Introduction to Automotive Technology	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College – Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – North Mankato</li> </ul>
Small Engines	Small Gas Engines	<ul style="list-style-type: none"> <li>• Minnesota State College – Southeast Technical Winona</li> <li>• Ridgewater College – Willmar</li> <li>• South Central College – North Mankato</li> </ul>
Independent Study <i>(Need counselor and instructor approval.)</i>	Related Welding	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College – Hutchinson and Willmar</li> <li>• Riverland Community College – Albert Lea</li> <li>• Rochester Community and Technical College</li> <li>• South Central College – North Mankato</li> </ul>
Independent Study <i>(Need counselor and instructor approval.)</i>	Introduction to Web Programming 1	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College-Hutchinson and Willmar</li> <li>• Riverland Community College</li> <li>• South Central College – North Mankato</li> </ul>
Computer Programming II	Introduction to Programming	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Minnesota West Community and Technical College – Granite Falls</li> <li>• Ridgewater College – Hutchinson</li> <li>• Riverland Community College</li> <li>• South Central College – North Mankato</li> </ul>
<b>Career Pathway: Agriculture and Natural Resources</b>		
<b>Course:</b>	<b>Tech Prep Certificate:</b>	<b>Participating Colleges:</b>
Horticulture	Agronomy	<ul style="list-style-type: none"> <li>• Dakota County Technical College</li> <li>• Ridgewater College – Willmar</li> <li>• South Central College – North Mankato</li> </ul>

## AGRISCIENCE STUDIES

*Course name:* **ANIMAL SCIENCE**

*Teacher:* **Mrs. Rodgers**

*Grade Level:* **11-12**

*Grad Package:* **None**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **686**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This class will cover the fundamental concepts of animal breeding, physiology, nutrition, and management as they apply to the production of beef, dairy, horses, poultry, sheep, swine, and other livestock. This class will have hands activities to help understand concepts.

*Course name:* **EMPLOYEE AND HUMAN RESOURCE RIGHTS, RESPONSIBILITES AND RELATIONSHIPS (E-HR-R<sup>3</sup>)**

*Teacher:* **Mrs. Rodgers**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **831**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** The focus of this class will be on the relationship between the employee and human resources. Topics will include job fit, search, application, interview and references. Discussion and activities surrounding employers and employee rights and responsibilities, insurance, labor management and collaborative environment. Students who take this class are also eligible to take the On the Job Work Cooperative Class, OJT Work Cooperative.

*Course name:* **EXPLORING AGRICULTURE**

*Teacher:* **Mrs. Rodgers**

*Grade Level:* **9-12\***

*Grad Package:* **None**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **125**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** Agriculture is big business. Not only are there many options in production but there are also many directions to go in agribusiness. This class will introduce students to basic production areas of livestock, plants and soil, as well as the ever-changing area of agribusiness. Hands on study of soil sampling, soil types, and plant nutritional needs. One of every seven workers in the United States has an agribusiness career. Find out what agriculture is about.

\*Preference will be given to ninth graders.



*Course name:* **HORTICULTURE**  
*Tech Prep College Credit:* **Agronomy**  
*Teacher:* **Mrs. Rodgers**  
*Grade level:* **10-12**  
*Course:* **Elective**  
*Length of course:* **Semester**  
*Number of periods per day:* **1**

*Course Code:* **127**  
*Prerequisite:* **None**  
*Credits:* **.50**

**Description:** Design your own landscape? Build your own corsage? These are just two of the topics covered in horticulture. Basic greenhouse management will deal with factors which influence plant growth such as light, media, fertility, etc. These can apply to the commercial greenhouse or the window box. Along with landscape design, growth of summer annuals in the greenhouse will be the areas of major emphasis. Students will study the use of genetic blending of agricultural crops including the reasons for and the methods of genetic combinations. There will be ample hands-on work in the greenhouse and in laboratory situations.

*Course name:* **OJT WORK COOPERATIVE PROGRAM**  
*Teacher:* **Mrs. Rodgers**  
*Grade level:* **12**  
*Course:* **Elective**  
*Length of course:* **Year**  
*Number of periods per day:* **1**

*Course Code:* **131/132**  
*Prerequisite:* **Workplace Readiness**  
*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. 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:* **RURAL LIVING**  
*Teacher:* **Mrs. Rodgers**  
*Grade Level:* **9-12**  
*Course:* **Elective**  
*Length of course:* **Semester**  
*Number of periods per day:* **1**

*Course Code:* **128**  
*Prerequisite:* **None**  
*Credits:* **.50**

**Description:** This class will discuss topics that impact peoples daily lives being in both rural and urban settings. Some compare and contrast of challenges and opportunities found in either location. Topics such as private and public utilities, taxes, political geography, and personal hobbies, entertainment and interests will be discussed comparing options in either setting.

*Course name:* **VETERINARIAN SCIENCE**

*Teacher:* **Mrs. Rodgers**

*Grade Level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **829**

*Prerequisite:* **No**

*Credits:* **.50**

**Description:** Interested in animal training, health, nutrition and breeding? If yes, veterinarian science is for you! There are over 70 million cats and 57 million dogs in the U.S. Seven million horses contribute more than 12 billion dollars to our economy annually. 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 exotic animals, wild game farming, companion animals and livestock management. If you enjoy working with animals, this class is a great fit.

## ART

*Course name:* **ART I**

*Teacher:* **Mrs. Mentjes**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **140**

*Prerequisite:* **None**

*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, color theory, ceramics, printmaking, sculpture and painting using art history as a resource. This class includes weekly sketchbook assignments as well as a short interpreting art paper.

*Course name:* **CERAMICS I**

*Teacher:* **Mrs. Mentjes**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$20**

*Course Code:* **145**

*Prerequisite:* **Art I**

*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 bi-weekly sketchbook assignments as well as one written review on an artist or artwork of your choice.

*Course name:* **CERAMICS II**

*Teacher:* **Mrs. Mentjes**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$20**

*Course Code:* **229**

*Prerequisites:* **Art 1 and Ceramics 1**

*Credits:* **.50**

**Description:** This course is a continuation of Ceramics 1. Additional ceramics techniques will be explored and students will need to choose a semester long project to challenge their skills. Glaze and kiln journals will be required.

*Course name:* **DRAWING AND DESIGN**

*Teacher:* **Mrs. Mentjes**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **146**

*Prerequisite:* **Art I**

*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, oil pastels, 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**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **257**

*Prerequisite:* **Art 1, Drawing & Design**

*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 weekly sketchbook assignments and will create a drawing portfolio.

*Course name:* **MEDIA ARTS**

*Teacher:* **Mrs. Mentjes**

*Tech Prep College Credit:* **Adobe Photoshop**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of Course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$15**

*Course Code:* **890**

*Prerequisite:* **Art 1 & Instructor's Permission**

*Credits:* **.5**

This class focuses on the exploration of the digital photography and the manipulation of photos, animation, video production, and graphic design, through the use of graphic software. Elements and tools of technology will be used to create works that express feelings and ideas through time, light, motion, color and space. Students will learn to critique mass media and see its cultural, personal, and historical contexts.



*Course name:* **PAINTING I**

*Teacher:* **Mrs. Mentjes**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$15**

*Course Code:* **141**

*Prerequisite:* **Art I**

*Credits:* **.50**

**Description:** This course focuses on the exploration of a variety of painting methods, techniques, and mediums. Students will explore techniques and processes in tempera, acrylic, watercolor, and dyes on various surfaces. Students will take part in self and group critiques of their work. The painting methods of both past and present artists will be an integral part of this class.

*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. Painting from nature, models, and imagination will be explored through various techniques in oil, acrylic, and watercolor paints. Participants will complete the Senior wall during 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, plaster, wood, wire, 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 one art historical research paper on a sculptural artist of their choice.

## BUSINESS



*Course name:* **ACCOUNTING**

*Tech Prep College Credit:* **Principles of Bookkeeping**

*Teacher:* **Ms. Rusch**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **1**

*Course Code:* **91/92**

*Prerequisite:* **None**

*Credits:* **.50 each semester**

**Description:** Looking for a career in business? Or maybe you just want to be sure you can handle your own finances. Accounting can help by providing you with the basic accounting principles used in business and personal financial management. Manual and computer-based accounting practices for service businesses, merchandising businesses, and corporations will be used, as well as an accounting simulation that will help students learn what it's like to run a real-life business. This course provides an excellent foundation for careers in business or further course work in accounting.

*Course name:* **ADS AND SALES MARKETING** *NCAA Approved Course*

*Teacher:* **Ms. Rusch**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **332**

*Prerequisite:* **None**

*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 COMPUTER APPLICATIONS – WORD**

**Tech Prep College Credit: Keyboarding, Keyboard for Computers, Beginning Word Processing, and Advanced Word Processing**

**Teacher: Ms. Rusch**

**Grade level: 10-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 94**

**Prerequisite: Personal Computer Apps.**

**Credits: .50**

**Description:** This is a course that can be helpful to all students. It is a one-semester course designed to teach students advanced word processing software for business and personal applications. Students will become experts at using the many advanced features of Microsoft Word.



**Course name: ADVANCED COMPUTER APPLICATIONS – EXCEL/POWERPOINT**

**Tech Prep College Credit: Excel and Powerpoint**

**Teacher: Ms. Rusch**

**Grade level: 10-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 96**

**Prerequisite: Personal Computer Apps**

**Credits: .50**

**Description:** This hands-on course provides students with valuable practical and "how to" experience. You will learn to operate computers more efficiently and develop skills that will allow you to enhance projects in your other classes. Create a spreadsheet with an eye-catching corresponding chart that will make your projects sparkle. Use formulas, advance functions, multiple worksheets, and other worksheet enhancements. Learn how to use PowerPoint more effectively, to create presentations that engage your audience. This is your chance to expand your knowledge regarding computers in today's ever-changing technological world.



**Course name: ENTREPRENEURSHIP**

**Tech Prep College Credit: Entrepreneurship**

**Teacher: Mrs. Rodgers**

**Grade level: 10-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 71**

**Prerequisite: Any one of the following:  
Marketing, Accounting, Economics,  
Introduction to Business, Ads & Sales  
preferred**

**Credits: .50**

**Description:** Students will learn how to develop an entrepreneurial business in this class. Researching, testing and protection of start-up ideas are important topics as well as are the topics of business organization and the flow of money through a business. Students will also have hands on learning opportunities involving the management of the Agriscience Plant Sale.

*Course name:* **INTRODUCTION TO BUSINESS**

*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 COMPUTER APPLICATIONS**

*Teacher:* **Ms. Rusch**

*Grade level:* **9-12—required for Grade 9**

*Course:* **Required**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **93**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This course is designed to teach keyboarding for personal use. The student will learn proper format for letters, envelopes, book reports, research papers, tables, graphs, job application forms, and minutes of a meeting. Emphasis in the course is on accuracy and neat appearance of work.

*Course name:* **PERSONAL AND BUSINESS LAW** *NCAA Approved Course*

*Teacher:* **Ms. Rusch**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **192**

*Prerequisite:* **None**

*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**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 685**

**Prerequisite: None**

**Credits: .50**

**Description:** Things are looking exciting for baseball in Minnesota as the Twins move to their brand new outdoor stadium this spring. Do you know how much money Target had to pay for the rights to name the stadium Target Field? What about the Gophers new 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 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**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 331**

**Prerequisite: Personal Computer App.**

**Credits: .50**

**Description:** This is a one-semester, hands-on course designed to acquaint students with the fine art of desktop publishing and well as an introduction to web design. Students will use Publisher desktop publishing software to create eye-catching business and personal use items including newsletters, reports, flyers, announcements, invitations, and presentation materials. Front Page 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:* **Ms. Thompson**

*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**

*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.

*Course name:* **ENGLISH 11**

*NCAA Approved Course*

*Teacher:* **Mrs. Kabat**

*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* and *The Bean Trees* or *Ender's Game*. Technical, 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.

Course name: **ENGLISH 12**

*NCAA Approved Course*

Teacher: **Mr. Smith**

Grade level: **12**

Course: **Required**

Course Code: **262/263**

Length of course: **Year**

Prerequisite: **None**

Number of periods per day: **1**

Credits: **1**

**Description:** Students will study elements of spoken and written communication as well as reading and analyzing various forms of literature. Grammar skills will be demonstrated mainly through the writing process. Writing will be demonstrated through poetry, journaling, short expository and analysis papers, as well as a large research paper. Students will be required to give three speeches – informative and demonstration. Students will study British literature following a chronological approach. Students will read Hamlet as a play and Lord of the Flies for their novel.



Course name: **ESSENTIALS OF SPEAKING AND LISTENING (online)**  
(Southwest State English Department Course # 110)

Teacher: **Mrs. Organ**

*(NCAA Approved Course)*

Grade level: **11-12**

Class Size: **264**

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: **11-12**

Course: **Elective**

Course Code: **275**

Length of course: **Semester**

Prerequisite: **None**

Number of periods per day: **1**

Credits: **.50**

**Description:** This class is the study of interrelationships of art, music, literature, and philosophy as it occurs in history. We will study the history of mankind from Greece and Rome to the 21<sup>st</sup> Century emphasizing the arts. 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**

**Grade level: 11-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: online**

*(NCAA Approved Course)*

**Class Size: 25**

**Course Code: 266**

**Prerequisite: None**

**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.

**Course name: MASS COMMUNICATIONS**

**Teacher: Ms. Thompson**

**Grade level: 11-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

*NCAA Approved Course*

**Course Code: 401**

**Prerequisite: C or better in English both semesters sophomore year**

**Credits: .50**

**Description:** Students in this course will work hands-on to develop their knowledge of the techniques and principles of television productions. Elements of public performance and public speaking will be focused upon. Students will have the opportunity to work within a variety of Visual/Audio mediums, producing products useful and valuable to both school and community. Students work in production teams within a professional studio setting. Students gain experience in all phases of production, including conception of ideas, scripting, directing and operation of equipment. Students will work individually as well as in groups to publish both the newspaper and the yearbook. Skills that will be involved include publishing, page layout, writing and critiquing print articles, and picture taking. The use of technology will be an emphasis.

**Course name: SPEECH AND DRAMA**

**Teacher: Mr. Smith**

**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 long course focusing on effective and powerful use of language. For one quarter students will focus on the writing and delivery of a variety of speeches. The emphasis will not be on speech content, but rather on speech technique. Quarter two will be the development of a short play, it will introduce students to the life-long activity of

drama and a small performance will be held as a culmination of the unit. Included will be basic set and lighting design.

## **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: Mrs. Bartlewski**

**Grade level: 11-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 720**

**Prerequisite: None**

**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: Mrs. Bartlewski**

**Grade level: 11-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 721**

**Prerequisite: None**

**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: 10-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 402**

**Prerequisite: None**

**Credits: .50**

**Description:** This class offer students opportunities to learn basic and advanced sewing skills that match their ability level. Various sewing techniques, such as seams and finishes, hems, zippers, buttons and buttonholes will be some of the techniques students will be able to

accomplish in their individual projects. Students will set individual goals and develop a plan to meet them.

*Course name:* **FACS I (Family and Consumer Sciences)**

*Teacher:* **Mrs. Berg**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **102**

*Prerequisite:* **None**

*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. There is a sewing project the students will construct that uses basic sewing techniques. 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 food preparation.

*Course name:* **FACS II (Family and Consumer Sciences)**

*Teacher:* **Mrs. Berg**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **103**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This course covers all phases of family and consumer sciences, also. The students will do a unit on wellness and nutrition and will study their own eating habits and exercise patterns. They will use a computer program to evaluate their diet and exercise and will make goals to improve those areas that are lacking in their diet. They will do a unit on the study of fabrics and the construction of a garment which fits the ability of the student. Units on the preparation of quick breads and yeast breads will be studied extensively which will emphasize skills in food preparation and small group cooperation.

*Course name:* **INTERIOR DESIGN**

*Teacher:* **Mrs. Berg**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **403**

*Prerequisite:* **None**

*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.

*Course name:* **LIVING SKILLS FOR TODAY**

*Teacher:* **Mrs. Bartlewski**

*Grade level:* **11-12**

*Course:* **Required**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **112**

*Prerequisite:* **None**

*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:* **PROCUREMENT AND MARKETING FOR TODAY'S CONSUMER**

*Teacher:* **Mrs. Berg**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **832**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This class will focus on the modern day consumer. Topics will include making and saving money, investments, and access to personal needs such as housing, purchasing a vehicle, life car and home insurance, and consumer electronics in the modern life. Understanding credit and loans as well as ideas to help be a frugal shopper using coupons, Groupons, discounts, comparative shopping techniques in person and online. Exposure to online sales, marketing, and home base business enterprises such as online catalogs, Ebay, Craigslist, and other online procurement and marketing options.

Pro Start I is a prerequisite for Pro Start II. 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:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$20**

*Course Code:* **722**

*Prerequisite:* **None**

*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: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Fee: \$20**

**Course Code: 723**

**Prerequisite: Pro Start I**

**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: RELATIONSHIPS AND FAMILY**

**Teacher: Mrs. Bartlewski**

**Grade level: 10-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Code: 404**

**Prerequisite: None**

**Credits: .50**

**Description:** This course will deal with developing effective relationship skills and the application of those skills to family life. Skills such as communication, conflict resolution, decision making, and understanding roles will be included. Students will also look at how to handle family crisis issues and resources available to deal with those issues. The role of the family in our society and the many different family structures found in our society will be examined.

**Course name: SPECIAL TEXTILE TOPICS**

**Teacher: Mrs. Berg**

**Grade level: 10-12**

**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.

## FOREIGN LANGUAGE

Course name: **SPANISH I**    *NCAA Approved Course*

Teacher: **Mrs. Wernau / Mrs. Parry**

Grade Level: **9-12**

Course: **Elective**

Length of Course: **Year**

*Course Code: 84/85*

*Prerequisite: None*

*Credits: 1*

**Description:** Students will gain proficiency on the vocabulary and grammar building blocks fundamental to understanding and speaking the language. Material will be introduced and assessed in the four modalities: listening, speaking, reading, and writing. Differences in vocabulary and culture between the countries within the Spanish-speaking world are addressed.

Course name: **SPANISH II**    *NCAA Approved Course*

Teacher: **Mrs. Wernau / Mrs. Parry**

Grade Level: **9-12**

Course: **Elective**

Length of Course: **Year**

*Course Code: 86/87*

*Prerequisite: Spanish classes taken consecutively with a grade of C or higher*

*Credits: 1*

**Description:** The students will further their knowledge of vocabulary and grammar structures from level I. Material will be introduced and assessed in the four modalities: listening, speaking, reading, and writing. Differences in vocabulary and culture between the countries within the Spanish-speaking world will continue to be addressed. **There is an additional requirement for this course.** Students must commit to completing lab assignments outside of class of approximately 1-2 hours each week. The student must meet at least one of the following: have high-speed internet access at home, have a study hall during the day, or be able to come before or after school to use the computer lab.



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 and about possibly taking a CLEP exam at the end of the course to possibly obtain some college credit. **There is an additional requirement for this course.** Students must commit to completing lab assignments outside of class of approximately 1-2 hours each week. The student must meet at least one of the following: have high-speed internet access at home, have a study hall during the day, or be able to come before or after school to use the computer lab. 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.

## **HEALTH**

*Course name:* **HEALTH**

*Teacher:* **Mr. Nelson**

*Grade level:* **10**

*Course:* **Required**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **152**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This class is a requirement for graduation. The units which are covered are: aging and death, alcohol and drugs, community CPR, nutrition, quackery and consumerism, mental health, STD's and unintentional pregnancy, and tobacco. The high school health class covers the learning area of Decision Making. The content standard it covers is Individual and Community Health.

## MATH

*Course name:* **ADVANCED ALGEBRA**  
*Teacher:* **Mr. Hunskor or Mrs. Ryan**  
*Grade level:* **9-12**  
*Course:* **Elective**  
*Length of course:* **Year**  
*Number of periods per day:* **1**

*NCAA Approved Course*

*Course Code:* **38/39**  
*MN State Standards Met:* **Alg (Completed)**  
*Prerequisite:* **Algebra I**  
*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:* **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:* **Algebra**  
*Prerequisite:* **C or above in 8<sup>th</sup> Math, or passed Basic Algebra**  
*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:* **ANALYTICAL GEOMETRY**  
*Teacher:* **Mrs. Kohner**  
*Grade level:* **11-12**  
*Course:* **Elective**  
*Length of course:* **Semester**  
*Number of periods per day:* **1**

*NCAA Approved Course*

*Course Code:* **45**  
*Prerequisite:* **Adv Algebra and Geometry**  
*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: **AP STATISTICS**

Teacher: **Mr. Hunskor**

Grade level: **11-12**

Course: **Elective**

Length of course: **Year**

Number of periods per day: **1**

Course Code: **738/739**

MN State Standards Met: **Prob/Stats**

Prerequisite: **Advanced Algebra**

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: **Elective**

Length of course: **Year**

Number of periods per day: **1**

Course Code: **41/42**

Prerequisite: **B or above in Trigonometry and Analytical Geometry**

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 MATHEMATICS**

Teacher: **Mrs. Ryan**

Grade Level: **11-12**

Course: **Elective**

Length of course: **Semester**

Number of periods per day: **1**

Class Code: **1002b/1002c**

MN State Standard Met: **Prob/Stats & Geo)**

Prerequisite: **Ext. Alg A,B,C,D**

Credits: **.50**

**Description:** This class is divided into two areas needed to prepare for the MCA II exam. These include the study of angles, triangles, and their properties; congruence and similarity; applications of the Pythagorean Thm.; Plane Geometry with application to area, arc length, circumference, and properties of polygons; and Solid Geometry with applications to volume surface area and various 3-dimensions figures. The second half of the year will focus on central tendency, distributions, fundamental rules of probability, writing and interpreting graphs, permutations and combinations, and the misuse of statistics.

*Course name:* **INTERMEDIATE ALGEBRA**

*Teacher:* **Mrs. Ryan**

*Grade level:* **9-11**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **1**

*Class Size:* **15**

*Course Code:* **310/311**

*Prerequisite:* **Algebra I**

*Credits:* **1**

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

*Course name:* **GEOMETRY**

*Teacher:* **Mrs. Kohner**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **1**

*NCAA Approved Course*

*Course Code:* **36/37**

*MN State Standards Met:* **Geometry**

*Prerequisite:* **Algebra 1 AND**

**Intermediate Math**

*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:* **PROBABILITY AND STATISTICS** *NCAA Approved Course*

*Teacher:* **Mr. Hunskor**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **47**

*MN State Standards Met:* **Prob/Stats**

*Prerequisite:* **Adv Algebra and Geometry**

*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:* **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.

## MUSIC

*Course name:* **CANTATE**

*Teacher:* **Mr. Strandell**

*Grade level:* **9-10**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **3 per week**

*Course Code:* **396/397**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** Cantate is a choral ensemble. A wide variety of music is studied and performed. Vocal lessons are provided and required for every student. Students will focus on vocal technique and music reading skills. Four major performances are scheduled each year as well as opportunities for solos and smaller ensembles.

*Course name:* **CONCERT BAND**

*Teacher:* **Mrs. Hoppe**

*Grade level:* **9-10**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **2 per week**

*Course Code:* **162/163**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This ensemble typically consists of students in lower grades, but this is also an ensemble for upper-class students learning a second instrument. 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 individual or small group lessons outside of class. Students are also given the opportunity to participate in pep band and jazz band.

*Course name:* **CONCERT CHOIR**

*Teacher:* **Mr. Strandell**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **1**

*Course Code:* **166/167**

*Prerequisite:* **None**

*Credits:* **1**

**Description:** Concert Choir is a select vocal ensemble. A wide variety of music is studied and performed. A focus area for this choir will be the performance of music without accompaniment. Vocal lessons are provided and required for every student. A major emphasis of this course is to give each student the knowledge and skills necessary to become both musically literate and an independent singer. Four major performances are scheduled each year as well as opportunities for solos and smaller ensembles.

*Course name:* **SINFONIA**

*Teacher:* **Mr. Mish**

*Grade level:* **9-10**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **2-3 per week**

*Course Code:* **226/227**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** The Chamber 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:* **SYMPHONY ORCHESTRA**

*Teacher:* **Mr. Mish**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Year**

*Number of periods per day:* **1**

*Course Code:* **164/165**

*Prerequisite:* **None**

*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 performance, 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**

*Length of course:* **Year**

*Number of periods per day:* **1**

*Course Code:* **160/161**

*Prerequisite:* **None**

*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 9 – PHYSICAL EDUCATION 10**

*Teacher:* **Mr. Canton, Mrs. Lunde, Mr. Krambeer, Mr. Nelson**

*Grade level:* **9-10**

*Course:* **Required**

*Course Code:* **172/173/174/175**

*Length of course:* **Semester**

*Prerequisite:* **None**

*Number of periods per day:* **1**

*Credits:* **.50**

**Description:** Physical Education 9 and 10 consist of a number of physical fitness activities during the semester. Students could participate in, but may not be limited to, the following activities: Presidential Fitness Testing, flag football, soccer, rope jumping, 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 grade 9 and 10 meets everyday for one semester.

*Course name:* **WEIGHT TRAINING/CONDITIONING**

*Teacher:* **Mr. Krambeer**

*Grade level:* **10-12**

*Course:* **Elective**

*Course Code:* **284**

*Length of course:* **Semester**

*Prerequisite:* **None**

*Number of periods per day:* **1**

*Credits:* **.50**

**Description:** This course is designed to develop the student's muscular strength, fitness and endurance by working on the weight machines and free weights. The course includes a program to benefit both athletes and students who choose to improve their overall wellness. Students will participate in cardiovascular training weekly to promote lifetime fitness and will also participate in a physical education activity weekly.

## SCIENCE

*Course name:* **A.P. BIOLOGY**

*NCAA Approved Course*

*Teacher:* **Ms. Schimek**

*Grade level:* **11, 12**

*Course:* **Elective**

*Course Code:* **681/682**

*Length of course:* **Year**

*Prerequisite:* **Biology and Chemistry, C or better**

*Number of periods per day:* **1**

*Credits:* **1**

**Description:** This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory science course and will be able to undertake other courses to pursue their majors.

AP Biology should include the topics regularly covered in a college biology course for majors. The textbooks used for AP Biology should be those used by college biology majors and the labs done by AP students must be the equivalent of those done by college students.

The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology.

The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The ongoing information explosion in biology makes these goals even more challenging. Primary emphasis in an AP Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns.

**Course Name: AP ENVIRONMENTAL SCIENCE**

**Teacher: Ms. Schimek**

**Grade level: 11, 12**

**Course: Elective**

**Length of course: 1 Year**

**Number of periods per day: 1 (3 days/week)**

**Course Code: 683/684**

**Prerequisite: Biology (C or better), Alg.**

**Credits: 1**

**Description:** The goal of the Advanced Placement Environmental Science is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental Science is interdisciplinary; it embraces a wide variety of topics from different areas of study (e.g. biology, chemistry, earth science, geography), yet there are several major unifying themes that cut across the many topics included in the study of environmental science.

AP Environmental Science has a significant laboratory and field investigation component. The goal of this component is to complement the classroom portion of the course by allowing students to learn about the environment through firsthand observations. Experiences both in the laboratory and in the field provide students with important opportunities to test concepts and principles that are introduced in the classroom, to explore specific problems with a depth not easily achieved otherwise, and to gain an awareness of the importance of confounding variables that exist in the “real world.” Examples of investigations include: collecting and analyzing water and soil samples, conducting long term studies on a local ecosystem or environmental problem, analyzing real data sets, and visiting local public facilities such as a water-treatment plant. The laboratory and field component will challenge students’ abilities to:

- Critically observe environmental systems
- Develop and conduct well-designed experiments
- Utilize appropriate techniques and instrumentation
- Analyze and interpret data, including appropriate statistical and graphical presentations
- Think analytically and apply concepts to the solution of environmental problems
- Make conclusions and evaluate their quality and validity
- Propose further questions for study
- Communicate accurately and meaningfully about observations and conclusions

**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:* **FOOD SCIENCE**

*Teacher:* **Mrs. Rodgers**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **802**

*Prerequisite:* **None**

*Credits:* **.50 \*Science Credit\***

**Description:** The United States has one of the safest food supplies in the world. Have you ever wondered about the processes your food goes through to keep it safe? Course content will focus on how our food is kept safe and the laws and technology associated with food safety. You will learn about HACCP (Hazard Analysis and Critical Control Point) what its seven step process is all about. Other topics include consumer education, careers in food science as well as the science behind food and how it affects production, processing and preservation.

*Course name:* **NATURAL RESOURCE SCIENCE**

*Teacher:* **Mrs. Rodgers**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **801**

*Prerequisite:* **None**

*Credits:* **.50 \*Science Credit\***

**Description:** Resource management is everybody's concern. The quality of our environment and our economic well-being depends on wise use of our resources. This course will focus on three areas. The first area, natural resources will incorporate topics such as soil, water, and air. Next we will discuss sustainable ecosystems including forests, prairies, and wetlands. The final area will be wildlife management containing subjects of fisheries, game birds, and mammals.

*Course name:* **PHYSICAL SCIENCE 9**

*Teacher:* **To Be Determined**

*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 that emphasizes the chemistry aspect of physical science during first semester. The problem solving techniques of the scientific method is used in laboratory activities and focused on by preparing formal lab reports. Discussion and labs are based on chemistry concepts such as the relationships between mass, volume, and density, graphing data, properties of matter, atomic structure, chemical bonding, periodic elements, and chemical reactions.

The second semester of physical science focuses on the physics branch of physical science. Discussion and labs are based on physics concepts such as motion, forces, energy, electricity, and magnetism.

*Course name:* **PHYSICS**

*NCAA Approved Course*

*Teacher:* **To Be Determined**

*Grade level:* **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 linear and rotational mechanics, heat energy, waves and optics, electricity and magnetism, and atomic physics. These topics are approached with discussion, laboratory, and problem solving. 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.

## SOCIAL STUDIES

*Course name:* **ATTITUDE AWARENESS**

*Teacher:* **Mr. McPhail**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **27**

*Prerequisite:* **None**

*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:* **ECONOMICS**

*Teacher:* **Mr. Stapleton**

*Grade level:* **11-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*NCAA Approved Course*

*Course Code:* **30**

*Prerequisite:* **None**

*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:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Code:* **29**

*Prerequisite:* **None**

*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: **PHYSICAL/REGIONAL GEOGRAPHY** NCAA Approved Course*

*Teacher: **Mr. Stapleton***

*Grade level: **11-12***

*Course: **Elective***

*Course Code: **603***

*Length of course: **Semester***

*Prerequisite: **None***

*Number of periods per day: **1***

*Credits: **.50***

**Description:** Physical/Regional Geography will introduce students to key geographical terms and concepts. Resource and land allocation will be examined. Students will also study the land masses of North America and Western Europe. This course meets the entrance requirements of the MnScu and the University of Minnesota system. Current events will be studied in conjunction with various topics.

*Course name: **PSYCHOLOGY(Offered 2011-12)** 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 2012-13)** 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).

*Course name:* **U.S. HISTORY 9**

*NCAA Approved Course*

*Teacher:* **Mr. Brown**

*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 9 students will study U.S. history from 1492 to the present. Students will study the social, economic, political, and cultural development that has shaped our country.

*Course name:* **WORLD/CULTURAL GEOGRAPHY** *NCAA Approved Course*

*Teacher:* **Mr. Brown**

*Grade level:* **11-12**

*Course:* **Elective**

*Course Code:* **602**

*Length of course:* **Semester**

*Prerequisite:* **None**

*Number of periods per day:* **1**

*Credits:* **.50**

**Description:** World/Cultural Geography will explore the geography and cultures of Africa, the Middle East and Asia. This will help students to understand the relationship between people and their surroundings. This course meets the entrance requirements of the MnScu and the University of Minnesota system.

*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



## TECHNOLOGY & ENGINEERING

*Course name:* **AUTOMOTIVE MECHANICS I**

*Teacher:* **Mr. Mainhardt**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$10**

*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.



*Course name:* **ENGINEERING DESIGN/DRAFTING I**

*Teacher:* **Mr. Mainhardt**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **None**

*Course Code:* **834**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** This course will give the student an overview of the engineering process as well as providing you with hands-on engineering practice. Students will also use the 3-D Computer Aided Drafting program, Autodesk Inventor, to create a visual representation of a product. The semester will end with each student completely disassembling a product of their choosing and creating part files and a working assembly file of their chosen item.



*Course name:* **ENGINEERING DESIGN/DRAFTING II**

*Teacher:* **Mr. Mainhardt**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **NONE**

*Course Code:* **835**

*Prerequisite:* **ENGINEERING DESIGN/DRAFTING I**

*Credits:* **.50**

**Description:** Picking up right where you left off students will explore the more advanced features of Autodesk Inventor and create complete working drawings of products to send directly to the manufacturers. Students will also get hands on experience with creating G-code in MasterCAM. This G-code will allow students to create their prototypes then test and redesign their product.

*Course name:* **METALS MANUFACTURING I: GENERAL METALWORKING**

*Teacher:* **Mr. Mainhardt**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$10**

*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 welding, MIG welding, oxyacetylene welding, and CNC machining processes. It will also cover safety practices and accident prevention.

*Course name:* **METALS MANUFACTURING II: MACHINE TOOL AND ADVANCED WELDING**

*Teacher:* **Mr. Mainhardt**

*Grade level:* **10-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$20**

*Course Code:* **837**

*Prerequisite:* **Metals Manufacturing 1  
& Engineering Design/ Drafting 1**

*Credits:* **.50**

**Description:** This course is designed to provide the students with advanced experiences in the hands-on units covered in the Metals Manufacturing 1 course. The students will complete a required machine project and a project of interest. The required project will be produced using machining skill at a high level. This will include use of the CNC mill and student produced G-code. The instruction will cover welding and fabricating in addition to advanced metal working techniques and procedures.

*Course name:* **POWER AND ENERGY**

*Teacher:* **Mr. Mainhardt**

*Grade level:* **9-12**

*Course:* **Elective**

*Length of course:* **Semester**

*Number of periods per day:* **1**

*Course Fee:* **\$10**

*Course Code:* **839**

*Prerequisite:* **None**

*Credits:* **.50**

**Description:** Students will be introduced to energy and power sources with application in our lives. Studies and activities involve students with simple machines, small gas engines, electricity and solar and alternative energy.



**Course name: TIMBER MANUFACTURING I: GENERAL WOODWORKING**

**Teacher: Mr. Mainhardt**

**Grade level: 9-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Fee: \$10**

**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 a 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.

**Course name: TIMBER MANUFACTURING II: MASS PRODUCTION**

**Teacher: Mr. Mainhardt**

**Grade level: 10-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Fee: \$20**

**Course Code: 841**

**Prerequisite: Timber Manufacturing 1  
& Engineering Design/ Drafting 1**

**Credits: .50**

**Description:** This course will simulate the life of a real product. Design teams will come up with a product to manufactured CAD models and prototypes will be made. The entire class will then choose the product they wish to manufacture and will split up into 3 teams, administration, marketing/sales, and production. These teams will work together to create an appealing and marketable product ready to hit the store shelves.

**Course name: TIMBER MANUFACTURING III: ADVANCED WOODWORKING AND CABINETMAKING**

**Teacher: Mr. Mainhardt**

**Grade level: 11-12**

**Course: Elective**

**Length of course: Semester**

**Number of periods per day: 1**

**Course Fee: \$20**

**Course Code: 842**

**Prerequisite: TIMBER MANUFACTURING  
II & Instructors Approval**

**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.

## **TEACHER AIDE**

*Course Name:* **TEACHER AIDE**

*Teacher:* **Staff**

*Grade Level:* **9 – 12**

*Length of course:* **semester**

*Number of periods:* **1**

*Course Code:* **13/213**

*Prerequisite:* **Teacher permission**

*Credit:* **.25**

**Description:** Students may be an aide for a teacher or secretary with permission from the person. The student is expected to meet with the teacher 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. 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.