

REGISTRATION GUIDE



**DASSEL-COKATO
HIGH SCHOOL
2012-2013
www.dc.k12.mn.us/hs**



You are receiving this registration guide to begin the preparation of selecting courses for the 2012-2013 school year. Faculty and staff have been working on this guide for a number of weeks rewriting and refining course descriptions to better enable students and parents to gain an understanding of the courses being described. Space does not permit us to go into great detail; however, our desire is to provide enough information so that informed decisions can be made when making course selections.

You are asked to study this guide carefully. There are a number of steps to follow as you go through this process.

- Know what courses you are required to take.
- Select alternate courses so that if you are not able to get your first selections, there will be additional courses from which to choose.
- If the course descriptions provided in the guide do not give you enough information, talk to a teacher in the department.
- Talk with the Guidance Counselor if, after reviewing this guide, you still would like more direction.

We cannot stress enough the importance of taking time to study this guide and making appropriate decisions regarding course selection. When you register for courses to take during the 2012-2013 school year, those selections should be final. Except for unique situations, we will not make schedule changes at the beginning of each trimester. The school district makes decisions regarding courses offered and staffing assignments based upon student course selection; therefore, you need to be confident in the courses you select. Do your homework now and make good decisions. Again, if you have questions, stop in the Guidance Office and we will assist you.

We are glad you are a student at D-C and we look forward to a great 2012-2013 school year.

D-C Faculty and Administration

GENERAL INFORMATION

Courses appearing in this registration guide may not be available due to insufficient registration numbers, staffing concerns, or for reasons requiring final school board approval of the course.

Students

This guide has been prepared to enable you to obtain an understanding of the high school curriculum. Brief descriptions of all courses offered for the 2012-2013 school year are included. In some cases, the number of students registering for classes and/or the availability of teachers will determine whether a course will be offered.

When selecting courses, take into consideration your aptitudes, interests and goals. Use courses to overcome weaknesses and build strengths. A counselor can help by interpreting test scores and providing career and school information. Teachers, administrators, parents, and people in various professions are valuable resources. Try to make the courses that you select fit your needs. Don't be afraid to sample courses from many departments.

Schedule Changes

All students will be enrolled in courses or approved activities all five periods. Students will not be allowed to change a schedule without administrative approval. Only under extreme circumstances will this be allowed. Take time to register carefully for the classes you need and want.

Graduation Requirements

The graduation requirements for the classes of 2013-2016 are listed on the following pages. Students are also required to pass the Minnesota Academic Standards embedded in many required classes. The standards must be met prior to graduation.

Academic Letter Requirement

To qualify for an Academic Letter students must be enrolled in a minimum of four academic classes. Students may have only ONE period of work release program or teacher assistant. See student handbook for more detailed information.

Supervised Teacher Assistant

This opportunity may be available for a limited number of students, in grades 11 and 12. Students will receive a grade of "P" for successful completion of the assistant experience. This grade will not count toward honor roll or class rank. Students will not receive credit for serving as teacher assistants. Students will be limited to one T.A. opportunity throughout their high school career. Only students with a good, solid academic record will be allowed to be a T.A. Students who have failed a course or are at risk of not graduating will not be allowed to be a T.A.

Independent Study

Very limited opportunities exist for independent study. A student must have an above average academic record and/or a unique circumstance requiring independent study. A teacher must agree to the I.S. and the responsibility of supervising the student. A meeting between the teacher, student and the Guidance Counselor is required prior to the arrangement being accepted and scheduled. Students will be limited to one independent study throughout their high school career.

Work Release Program

The Work Release Program allows seniors to leave school early (during 2nd or 3rd trimester only) to gain additional work experience. No credit will be earned for Work Release periods therefore a senior can have no more than 2 Work Release periods throughout the year. Eligible students must have 49 credits after the first trimester of their senior year and be on track to graduate. Students must also provide proof of employment. An application must be turned in each trimester signed by the student, the student's employer, the student's parents and the Guidance Counselor. Students will be removed from Work Release if they do not meet all the qualifications each trimester.

Prerequisite: Small Business Management

To register for the Work Release Program, students should sign up in the Guidance Office.

Students in the Agricultural Work Program please refer to the Agricultural Work Program course description for more information.

GENERAL INFORMATION

NCAA Guidelines

(National Collegiate Athletic Association)

Students who have plans to participate as student-athletes at Division I or Division II schools must meet specific academic and test score requirements in order to be eligible to participate their first year in college. General eligibility requirements for prospective student-athletes are provided below. For all eligibility requirements, please refer to the NCAA Clearinghouse website www.eligibilitycenter.org. Students should check with the Guidance Counselor to see what courses meet the academic requirements of the NCAA. Students should register with the Clearinghouse and submit a transcript, late in their junior year or early in their senior year.

Perspective NCAA Division I or II student-athletes:

1. Proof of graduation.
2. Grade point average of at least 2.0 on a 4.0 scale.
3. Abide by the Division I or II listed below:

DIVISION I & II*

16 Core-Course Rule

16 Core Courses:

- 4 yrs. of English.
- 3 yrs. of mathematics (Algebra I or higher).
- 2 yrs. of natural/physical science (1 year of lab if offered by high school).
- 1 yr. of additional English, mathematics or natural/physical science.
- 2 yrs. of social science.
- 4 yrs. of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

***Please note: Students entering college after August 1, 2013 will be required to have 16 Core-Courses for Division II schools.**

4. The required sum of the student's GPA and ACT scores should be verified with the NCAA Clearinghouse website. **All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.**

PSEO (Post Secondary Educational Option)

Under Minnesota statute, juniors and seniors who are enrolled in high school may be concurrently enrolled in a post-secondary institution provided certain criteria are met. Because of the different criteria each individual school establishes, anyone wanting information about PSEO is encouraged to contact the Guidance Office. All PSEO course grades will be based on the standard weighting scale, no weighting will be applied.

CLEP

(College Level Exam Program)

CLEP is a credit-by-examination program that offers students the opportunity to receive college credit by earning qualifying scores on exams. 33 exams are available in introductory college-level subjects. Students can earn from 3 to 12 college credits toward a college degree, depending on the exam subject and the policy of the college or university.

After successful completion of a course or series of courses at DCHS students may be prepared to take a CLEP exam in that subject area. If interested, students are encouraged to discuss this option with the Guidance Counselor. More information about CLEP can be found in the Guidance Office or at www.collegeboard.com/CLEP.

GRADUATION REQUIREMENTS

Students will need a total of 58 credits to graduate.

These will include 36 credits of required classes listed below, plus 22 credits of electives.

English (Total of 8 credits)

- 2 credits of English 9
- 2 credits of English 10
- 1 credit of Explorations in Literature
- 1 credit of Speech
- 1 credit of Composition (Advanced Composition, Expressive Writing, Practical Writing, or Journalism)
- 1 credit of English Elective

Math (Total of 6 credits)

Science (Total of 7 credits)

<u>Class of 2013 & 2014</u>	<u>Class of 2015</u>	<u>Class of 2016</u>
2 Physics	3 credits of Intro to Science	2 Physical Science
2 Chemistry	2 credits of Chemistry or Physics	2 Physics or Chemistry
3 Biology	2 credits of Biology	3 Biology

Social Studies (Total of 7 credits)

- 2 credits of Civics 9 / Early American History
- 2 credits of History 10
- 1 credit of World History (Ancient or Modern)
- 1 credit of Geography
- 1 credit of Social Studies Elective

Physical Education/Health (Total of 3 credits)

- 1 credit of PE 9
- 1 credit of Health 10
- 1 credit of PE Elective in 10th, 11th, or 12th grade

Business (Total of 3 credits)

- 1 credit of Computer Applications
- 1 credit of Personal Finance
- 1 credit of Economics

Fine Art (Total of 2 credits)

May include art, band, choir, or Intro to Theatre Arts

Electives 22 credits

Note: For entrance into the Minnesota State College System there is a foreign language requirement of two consecutive years of the same world language.

COURSE PATHWAYS

These are suggested course sequences designed to enable students to meet the requirements to pursue their post-high school goals. Please remember that it is possible to move between plans should your post-high school goals change. This is a guideline and not meant to substitute for one-on-one counseling.

Music Students who would like help developing a plan on how to have music each trimester, please contact the Guidance Counselor to set up an appointment.

Technical and Community College		9th	10th	11th	12th
	Communications	Comm 9A, 9B	Comm 10A, 10B	Explorations in Literature Speech	Composition Elective Communication Elective
	Math	Algebra Foundations A Algebra Foundations B or Intermediate Algebra or Geometry A Geometry B	Geometry Foundations A Geometry Foundations B or Algebra II A Algebra II B	Algebra II Foundations or Intro to Stats or Trig	Intro to Stats or Pre-Calc
	Science	Physical Science A, B	Chemistry A, B or Physics A, B	Biology A, B, C or Biology A, B, Env. Sci.	
	Social Studies	Civics 9 Early American History	History 10A, 10B	World History	Geography 1 Social Elective
	Phy Ed	PE 9	Health	1 PE Elective	
	Business	Computer Applications		Economics	
			Personal Finance		
	Fine Art/Music	2 Fine Art or Music Electives			
Electives	2-6 Electives	1-6 Electives	1-8 Electives World Language I (World Language if transferring to 4-year college.)	2-13 Electives World Language II	

Four Year College - Traditional Plan		9th	10th	11th	12th
	Communications	Comm 9A, 9B or HNRS Comm 9A, 9B	Comm 10A, 10B or HNRS Comm 10A, 10B	Explorations in Literature Speech	Advanced Composition Communication Elective
	Math	Intermediate Algebra Geometry A Geometry B	Algebra II A Algebra II B Intro to Stats	Trig. College Algebra A, B or AP Stats A, B	Pre-Calculus or College Algebra A, B or AP Stats A, B
	Science	Physical Science A, B	Chemistry A, B or Physics A, B	Biology A, B, C or Biotechnical A, B, C	Physics A, B or Chemistry A, B or College Chemistry A, B, C or AP Biology A, B, C
	Social Studies	Civics 9 Early American History	History 10A, 10B	World History	Geography 1 Social Elective
	Phy Ed	PE 9	Health	1 PE Elective	
	Business	Computer Applications		Economics or College Macroeconomics	
			Personal Finance		
	Fine Art/Music	2 Fine Art or Music Electives			
Electives	2-5 Electives	1-5 Electives	1-8 Electives World Language I	1-9 Electives World Language II	

COURSE PATHWAYS

These are suggested course sequences designed to enable students to meet the requirements to pursue their post-high school goals. Please remember that it is possible to move between plans should your post-high school goals change. This is a guideline and not meant to substitute for one-on-one counseling.

Music Students who would like help developing a plan on how to have music each trimester, please contact the Guidance Counselor to set up an appointment.

Four Year College - Rigorous Plan		9th	10th	11th	12th
	Communications	Comm 9A, 9B or HNRS Comm 9A, 9B	Comm 10A, 10B or HNRS Comm 10A, 10B	Explorations in Literature Speech Advanced Composition	College English A, B, C
	Math	Geometry A Geometry B Algebra II A	Algebra II B Intro to Stats Trig.	Pre-Calculus or College Algebra A, B or AP Stats A, B	College Algebra A, B or AP Stats A, B or College Calculus A, B, C
	Science	Chemistry A, B or Physics A, B	Chemistry A, B or Physics A, B	Biology A, B, Anat/Phys or Biotechnical A, B, C or College Chemistry A, B, C or AP Biology A, B, C	College Chemistry A, B, C or AP Biology A, B, C
	Social Studies	Civics 9 Early American History	History 10A, 10B	Geography World History	College Psychology A, B
	Phy Ed	PE 9	Health	1 PE Elective	College PE
	Business	Computer Applications		Economics or College Macroeconomics	
		Personal Finance			
	Fine Art/Music	2 Fine Art or Music Electives			
	Electives	2-5 Electives	1-4 Electives World Language I	1-5 Electives World Language II	1-3 Electives World Language III

COLLEGE CREDIT AT DCHS

DCHS provides many opportunities for students to earn college credit while in high school. We have partnered with South-west Minnesota State University, University of Minnesota, St. Cloud State University and Ridgewater College to provide several Dual Enrollment, or College in the Schools (CIS) courses. These courses are taught in our school by our teachers and follow the curriculum and standards set by the college. Students will earn both high school credit and college credit with no cost to the student. We also have Advanced Placement (AP) courses which are taught at a college level and upon completion of the course students may take an AP test to earn college credit. It is up to the college the student attends to award credit based on their AP test results. Another option our students have to gain college credit is through Articulated Agreements that we have with Ridgewater College and several other technical colleges throughout Minnesota. Once a student completes one of the courses with an Articulated Agreement and then enrolls in one of the partnering colleges they will automatically be awarded college credit for completing that course.

It is up to the college the student attends to award credit for CIS and AP courses completed at DCHS.

STUDENT ELIGIBILITY FOR COLLEGE COURSES OFFERED THROUGH SMSU and SCSU

Students who plan to enroll for college courses in high school must meet the following requirements:

1. Must be at least 16 years of age.
2. Must submit an e-application and be admitted to SMSU or SCSU.
3. Must be a junior or senior in high school
 - A. Juniors must be in the top third of their class
 - B. Seniors must be in the top half of their class
4. Must have a minimum GPA of 3.0 (on a 4.0 point scale)

SMSU College Now Courses	Credits	Advanced Placement Courses	Credits
English 151 - Academic Writing	4	AP Biology	3 to 5
English 120 - Intro to Literature	3	AP Statistics	3 to 5
General Chemistry 231	4	Total	6 to 10
General Chemistry 232	5		
Art 100 - Intro to Art	3	Articulated Credit Courses	
Political Science 120 - American National Gov.	3	Horticulture	3
Economics 202 - Macroeconomics	3	Small Gas Engines	3
CIS 105 - Intro to Computer Science	3	Accounting III	3
Math 110 - College Algebra	3	Machine Tools I	3
Math 150 - Calculus I	5	Machine Tools II	3
Math 151 - Calculus II	5	Computer Aided Drafting & Design	3
Total	41	Small Business Management II	3
		Young Child II	3
		Total	24
SCSU Senior to Sophomore Courses		University of Minnesota College Courses	
PESS 122 - Lifelong Health and Fitness	1	Project Lead the Way - Intro Engineering	3
Psychology 115 - Introduction to Psychology	3	PLW - Principles of Engineering	3
Total	4	PLW - Biotechnical Engineering	3
		College Horticulture - Plant Propagation	4
Ridgewater College Courses		Total	13
Certified Nursing Assistant	3		
Potential Savings			
Cost per Credit	1 credit	15 credits	
Ridgewater College	\$172.43	\$2,586.45	
St. Cloud State University	\$236	\$3,552	
University of Minnesota	\$448	\$5,825.04	(flat rate after 13 credits)
St. John's University	\$1,292	\$15,788	(price per credit drops after 12)

ADVANCED LEVEL COURSE ROTATION

We have developed this cycle of alternating classes to help students better plan for what they would like to take in their Junior and Senior year of school. Although we would like to be able to offer all classes all the time, we just do not have enough students or staff to offer them all each year. By planning ahead as Freshmen and Sophomores, students can maximize the number of advanced level course they would like to take. Hopefully the information below will be helpful in deciding your course selection for next year. If at any time you would like further help in planning your classes please make an appointment with the Guidance Counselor, Mr. Tool.

Department	Every Year	Odd Years (2012-2013)	Even Years (2013-2014)
<i>Art</i>		College Art Appreciation	
<i>Agriculture</i>		Animal Science, Global Ag., College Horticulture	Ag. Business, Horsemanship
<i>Business</i>	College Macroeconomics	Small Business Management II, QuickBooks	College Computer Science, Accounting III
<i>English</i>	College English		
<i>FACS</i>	Young Child I & II		
<i>Industrial Tech.</i>	Intro to Engineering & Design, Principles of Engineering		
<i>Mathematics</i>	College Algebra, College Calculus, AP Statistics		
<i>PE</i>	College PE	Triathlon	Sports Officiating
<i>Science</i>		College Chemistry, Bio Technical Engineering	AP Biology
<i>Social Studies</i>	College Psychology	College Political Science	
<i>World Language</i>	German III		Spanish III

DCHS WEIGHTED GRADING SCALE

Dassel-Cokato High School is on a trimester schedule.

DEFINITIONS AND GUIDELINES:

COLLEGE COURSES:

All courses taught in correlation with a college or university and courses meeting the criteria for Advanced Placement.

HONORS COURSES:

1. The course is substantially more challenging in terms of skills to be acquired or intellectual accomplishments to be demonstrated than typical courses offered at the same grade level.
2. Students are expected to work and learn independently.
3. A considerable amount of out of classroom study is required to successfully complete the course.
4. Instruction is focused on the higher levels of Bloom's Taxonomy (especially analysis, synthesis & evaluation).

STANDARD COURSES:

This category includes courses meeting the MN Academic Standards. Required and elective courses in this category are open to and appropriate for the majority of students.

MODIFIED COURSES:

These courses are fundamental for students needing basic skill development in a specific subject area.

COURSE CLASSIFICATIONS:

Department	College Courses	Honors	Standard	Modified	
<i>Art</i>	College Art Appreciation	Honors Art	<i>All required and elective courses are open to and appropriate for the majority of students</i>		
<i>Agriculture</i>	College Horticulture	Youth Leadership			
<i>Business</i>	College Computer Science, College Macroeconomics	Accounting III			
<i>English</i>	College English	Honors English 9/10, Advanced Composition			
<i>Industrial Tech.</i>					
<i>Mathematics</i>	College Calculus, AP Statistics, College Algebra	FST, Trigonometry, Pre-Calculus			
<i>Science</i>	AP Biology, College Chemistry	Anatomy & Physiology, Biotechnical Engineering			
<i>PE</i>	College PE				
<i>Social Studies</i>	College Psychology, College Political Science	Psychology II			Alternate American & World History
<i>World Language</i>		Spanish III & German III			
<i>Other</i>	CNA		PSEO Courses	All Alternate or ALC Courses	

WEIGHTING:

The following weighting system will be used:

<u>GRADE</u>	<u>COLLEGE LEVEL</u>	<u>HONORS LEVEL</u>	<u>STANDARD LEVEL</u>	<u>MODIFIED LEVEL</u>
A	6.4	5.2	4.0	2.8
A-	5.87	4.77	3.67	2.56
B+	5.34	4.33	3.33	2.33
B	4.81	3.9	3.0	2.1
B-	4.28	3.47	2.67	1.86
C+	3.75	3.03	2.33	1.63
C	3.22	2.6	2.0	1.4
C-	2.69	2.17	1.67	1.16
D+	2.16	1.73	1.33	0.93
D	1.63	1.3	1.0	0.7
D-	1.1	0.87	0.67	0.46
F	0	0	0	0

REVIEW CYCLE:

Revisions of courses to be included in the above designations will be a part of the curriculum review/revision process.

Ex: When art curriculum is being reviewed/revise, courses offered will be placed in one of the above designations.

AGRICULTURE, FOOD & NATURAL RESOURCES

2012-2013 Ag Program Offerings

Exploring Agriculture 9-11

Wildlife 9-12

Small Engines 9-12

Youth Leadership 10-12

Food Technology 10-12

Horticulture 9-12

Floriculture 10-12

CIS Horticulture 11-12

Landscaping 10-12

Global Agriculture 10-12

Animal Science 10-12

Ag Work Program 12

2013-2014 Ag Program Offerings

Exploring Agriculture 9-11

Wildlife 9-12

Small Engines 9-12

Youth Leadership 10-12

Food Technology 10-12

Horticulture 9-12

Floriculture 10-12

Landscaping 10-12

Ag Business 10-12

Horse 9-12

Ag Work Program 12

AGRICULTURE, FOOD & NATURAL RESOURCES

532102: HORTICULTURE/PLANTS ALIVE! **Elective: Grades 9, 10, 11 or 12**

Grow plants in the greenhouse facility with this course. Students will investigate scientific concepts relating to horticulture and plant science. Students will learn to identify, reproduce, and care for houseplants, greenhouse plants, and nursery materials. Enjoy working in the greenhouse and growing different vegetables and bedding plants. Students will have the opportunity to complete hands-on activities in the school greenhouse.

College credit available. This course has been articulated with the Southern Minnesota State College System Consortium.

532112: WILDLIFE **Elective: Grades 9, 10, 11 or 12**

Students will develop an appreciation for wildlife by studying habitats, characteristics, and behaviors. Students will learn about hunting and fishing regulations and what role they provide in today's population management of animals. Major projects in this class include preparing a small animal or bird for permanent display in a taxidermy project and designing a scale model of a forest.

A fee is required for taxidermy supplies and materials.

532111: SMALL GAS ENGINES **Elective: Grades 9, 10, 11 or 12**

This course will enable students to become proficient overhauling 2- and 4- cycle engines. The types of machines students will work with are mowers, tillers, chain saws and weed whips.

College credit available. This course has been articulated with the Southern Minnesota State College System Consortium.

532116: EXPLORATORY AG SCIENCE **Elective: Grades 9, 10 or 11**

This course includes exploration and basic introduction to the many areas of our nation's largest industry: agriculture and agri-business. It is not just about sows, cows, and plows anymore. Find out what fishing, hunting, dogs, cats, food, and flowers all have to do with agriculture. Units of study may include: wildlife, dairy foods, dogs, cats, large animals, flowers, meats, leadership, and career exploration.

532106: ANIMAL SCIENCE **Elective: Grades 10, 11 or 12**

This course is designed to provide students with the opportunity to get a closer look at domestic livestock. Species to be studied may include cats, dogs, cattle, swine, sheep, goats, and specialty animals. Specific topics will include anatomy, nutrition, genetics, reproduction, and diseases. Hands-on activities are the main form of class instruction and may include monitoring chick development through hatching eggs, digestive system dissections, and a tour of area livestock production operations. If you raise animals or are looking into an animal related occupation, this class will provide you with basic knowledge.

532114: FLORICULTURE **Prerequisite: Horticulture/Plants Alive!** **Elective: Grades 10, 11 or 12**

This course covers the floral design principles required to create traditional, contemporary, and Oriental floral arrangements. Basic floral design techniques will be covered. Students will work with fresh, dried and silk flowers. The class will cover flower identification, corsage making, bud vases, dried materials, basic floral designs, and project work. Students will create and sell arrangements during this course.

532117: FOOD TECHNOLOGY **Elective: Grades 10, 11 or 12**

This course provides learning experiences in food science and safety which all apply to practices used in the development of food products. Units of instruction include: methods of food preservation, food processing, food packaging, microorganisms in foods, quality assurance and food components. Students will spend time developing and creating a new food product, taking into consideration all aspects of the food chain and how to market the final product.

A fee of \$15 is required for food lab materials and supplies.

532113: LANDSCAPING **Prerequisite: Horticulture/Plants Alive!** **Elective: Grades 11 or 12**

Students will learn the principles of landscape design and convert these principles into landscape designs using drawing tools. Students will also have a chance to convert their drawings into an outside landscaping project. Practices of landscape maintenance such as fertilizing, trimming and pruning will also be demonstrated. Study of the turf industry will be incorporated into this course.

AGRICULTURE, FOOD & NATURAL RESOURCES

532115: YOUTH LEADERSHIP

Elective: Grades 10, 11 or 12

This course is weighted for class ranking purposes.

This course is for the student currently serving in a leadership role (ex. Captain, 4-H, youth group, student council, FLY, NHS, FFA, or others) and for the student who would like to build their leadership skills and become a leader within their school and community. Students will investigate and analyze group dynamics, leadership styles, goals, and goal setting. While working in teams students resolve group conflicts, improve networking skills, and participate in team building activities. The fundamentals of parliamentary procedure will be taught through participation in a mock meeting.

532108: GLOBAL AGRICULTURE ISSUES

Elective: Grades 10, 11, or 12

Students will study the United States agricultural industry in relation to the world economy. While developing an understanding and appreciation for other cultures, students will understand why being globally competitive is vital for the U.S. agricultural industry. The class will explore different agricultural issues in the world and U.S., specifically in the areas of animals, food safety, environmental, agricultural policy, economy and trade, and biotechnology. Student may hear guest speakers who play an instrumental role in the global agricultural industry.

This course is required of students wishing to participate in the Ag Work Program during the 2012-2013 or 2013-2014 school years.

535352: COLLEGE HORTICULTURE

Prerequisite: Successful completion of Horticulture and must be in the top 33% of junior class or top 50% of senior class.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

Four credits can be earned from the University of Minnesota through this course. Plant Propagation offers students the opportunity to learn fundamental biological concepts of plant morphology, physiology and reproduction, and to apply these concepts in the greenhouse to the techniques of ornamental, fruit and vegetable plant propagation. The lecture section focuses on plant structure and function, while the labs highlight how to grow and multiply plants. Students will also know how to use scientific ways of inquiry to investigate plant propagation questions.

AG CO-OP WORK PROGRAM

Prerequisite: Global Agriculture Issues

Elective: Grade 12

The Agriculture Co-op Work Program is designed for students who have a sincere interest and passion for agriculture with a desire to pursue a career in the industry. Students wishing to enroll in the Agriculture Co-op Work Program must seek prior approval from the agriculture Work Coordinator. In addition, the student must demonstrate a desire for agriculture by previous completion of a minimum of two agricultural courses prior to enrollment in the program and prior enrollment in the Global Agricultural Issues course.

Work schedules will be determined by the employer, Work Coordinator and Guidance Counselor. Also, the student shall be responsible for transportation, shall be evaluated by the employer and/or supervisor each term, and shall abide by all rules and policies of the school and employer.

COURSE NUMBERS (One or Two Periods per Day)

Tri 1: One Period: 533902; Two Periods: 533905

Tri 2: One Period: 534147; Two Periods: 533906

Tri 3: One Period: 534150; Two Periods: 533907

Agriculture Courses Offered Next Year (2013-2014)

HORSES AND HORSEMANSHIP

Elective: Grades 9, 10, 11 or 12

Students who own or just have an interest in horses may wish to enroll in this course. Students will become familiar with the breeds of horses. Grooming, showing, and evaluating horses will be covered. Students will be exposed to proper nutrition and feeding of horses. Hands-on opportunities with live horses may be available.

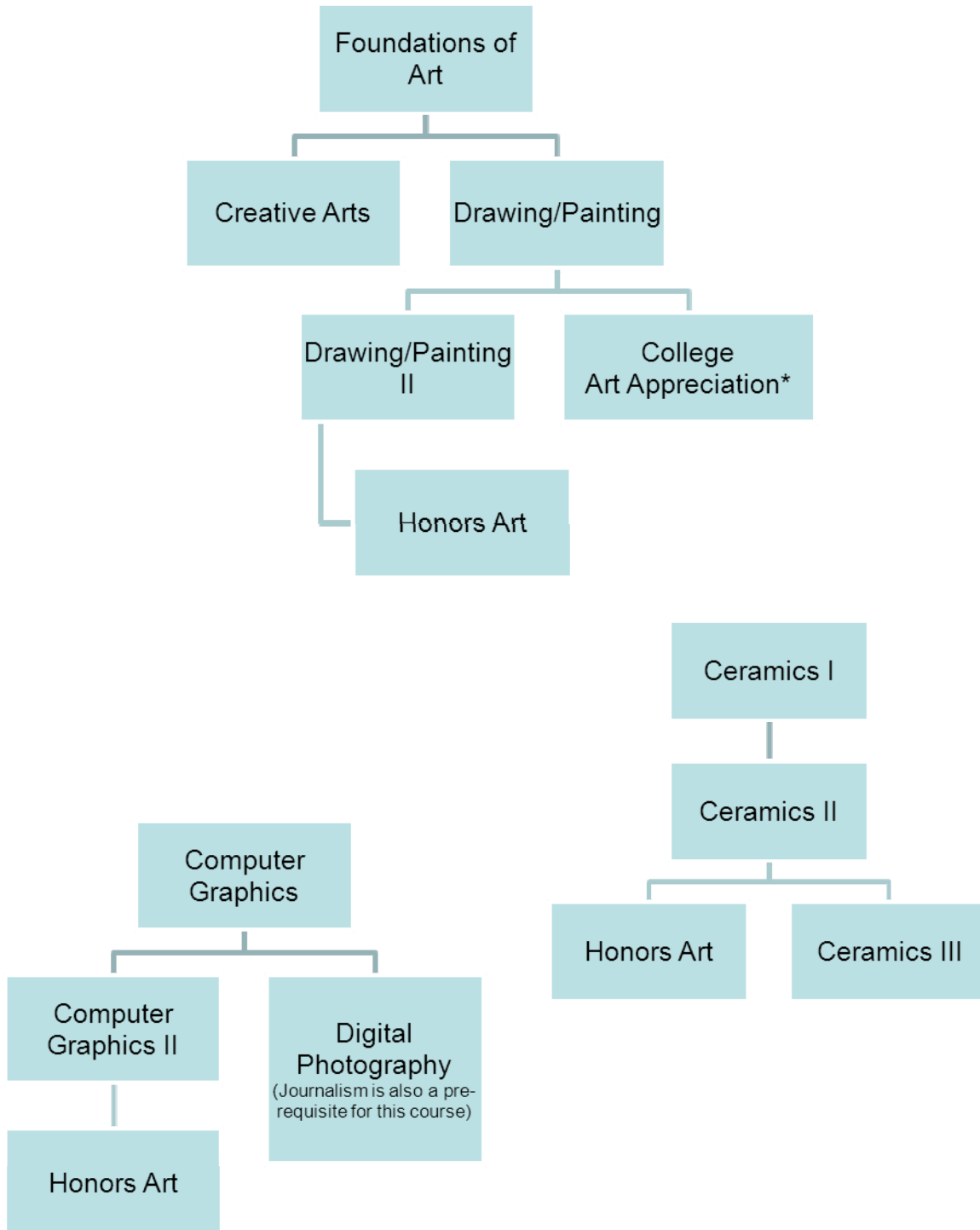
AG BUSINESS MANAGEMENT & SALES

Elective: Grades 10, 11 or 12

Is a career in management and sales for you? Students will have the opportunity to create and develop a new product. Sales techniques, advertising, employee relations, job interviews, and agri-business procedures will be covered in relationship to their product. This course will also cover farm and agri-business accounting, income statements, balance sheets, taxes, budgets, marketing, and financial analysis.

ART

All Art Courses count towards the Fine Arts Graduation Requirement



ART

All Art Courses count towards the Fine Arts Graduation Requirement

532211: FOUNDATIONS OF ART

Elective: Grades 9, 10, 11 or 12

This class is a stepping stone from the middle school to continuing in the Arts. Students at this level will be expected to work with a wide variety of mediums in exploring their own artistic expression. An overview of the elements and principles of Art and design will be provided lending themselves as the basic structure in problem-solving approaches to visual exploration. The course will also deal with artists/movements and their impact to the arts. Students will be exposed to the fundamentals of Art criticism, evaluation and history.

532209: COMPUTER GRAPHICS

Elective: Grades 9, 10, 11 or 12

This class will focus on the increasingly popular computer generated form of Art. Students will learn the principles needed for working in Graphic Design with projects ranging from free drawing, creating abstract work, to assignments geared toward business applications. The class will use Adobe Photoshop CS3 as its primary program which is the industry standard in computer design. Partial college credit can be earned with articulation agreements offered by the instructor.

532216: COMPUTER GRAPHICS II

Prerequisites: Computer Graphics

Elective: Grades 10, 11 or 12

With the basics of 2D computer design learned, students can now get into computer animation and portfolio creation. Still using Adobe Photoshop CS3 as the standard of computer design, students will go further into its use in creating original compositions. But now the class will learn Adobe Flash CS3 to create small projects of computer animation. Partial college credit can be earned with articulation agreements offered by the instructor.

532210: CREATIVE ARTS

Prerequisite: Foundations of Art

Elective: Grades 9, 10, 11 or 12

For those that love to create, but maybe aren't into drawing and painting; this course will be a hands-on experience that is directed more towards the three dimensional. Students gain skills, knowledge, and techniques while working with materials to produce Art products that will reflect the students' individual insights. Projects range from crafts from South American to new styles of graffiti in Europe. Various artists; from the classic artists to those that are changing what sculpture means today will be studied. Projects will be created using paper maché, wire, plaster and found materials.

\$10 Art Fee

532212: DRAWING/PAINTING I

Prerequisite: Foundations of Art

Elective: Grades 9, 10, 11 or 12

In this class, students will focus mainly in the drawing and painting fields, with a variety of techniques and mediums explored. The elements and principles of Art and design will play an important role in this course. Students will learn how important drawing and painting are while at the same time gaining knowledge in their history. As a part of the class, students will continue to understand art criticism and its effectiveness in evaluating and developing artwork.

\$10 Art Fee

534885: DRAWING/PAINTING II

Prerequisite: Foundations of Art & Drawing/Painting I

Elective: Grades 10, 11 or 12

This course is designed for those students who have successfully completed Drawing/Painting and who have a desire to do advanced work in drawing and/or painting. Students will improve skills in developing composition and individual artistic expression. The class will be given projects that will challenge their imagination and allow them to go in their own direction. Artists, their styles, and movements will be investigated. Art criticism as well as individual style will be stressed.

\$10 Art Fee

534852: DIGITAL PHOTOGRAPHY:

Prerequisite: Journalism & Computer Graphics

Elective: Grades 11 or 12

This photography class will help students get away from the "point and shoot" type of picture taking. In this course, students will look at the basic use of a digital camera, advanced settings, how to set up a picture and how to use Elements and Principles of Design in their work. Students will complete weekly portfolios of their work and look at what the professionals are doing today.

\$10 Printing Fee

ART

All Art Courses count towards the Fine Arts Graduation Requirement

532006: HONORS ART WINTER TRIMESTER

Prerequisites: Foundations of Art; Drawing/Painting I; and one of the following: Drawing/Painting II, Ceramics II, Computer Graphics II.

Elective: Grades 10, 11 or 12

This course is weighted for class ranking purposes.

Honors Art students are selected for the class based on their success in art, attitude, and talent. The requirements of Honors Art are more demanding on a student's skill, effort, and creativity. This class can be taken to complete portfolios, work on Art competitions, and complete scholarship applications for students continuing in the Arts after high school.

\$10 Art Fee

535034: COLLEGE ART APPRECIATION

Prerequisites: Foundations of Art, Drawing/Painting I and top 33% of junior class or top 50% of senior class.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

A total of three(3) credits can be earned through Southwest Minnesota State University. Taking a college level course here at DCHS affords students the opportunity to receive college credit while still being part of their high school activities and environment.

In this course students develop visual literacy by exploring the elements of art and organizing principles that are basic to the learning and appreciation of art. Students are introduced to the nature and concepts of art by connecting studio work and art history. Critical thinking, innovation, and experimentation in art processes is encouraged in the study of various. Students participate through research, project management, discussion to build informed foundations for personal understanding and enjoyment of art. This course also provides a transitional, learning experience from high school to college. Art appreciation is for college credit as an Art elective in college.

CERAMICS SEQUENCE

There are no prerequisites for enrolling in the Ceramics courses, however all Ceramics courses must be taken in sequential order.

532215: CERAMICS I

Elective: Grades 9, 10, 11 or 12

This course is designed to introduce students to the basics of ceramics and the techniques of rendering in a three-dimensional space. Students will learn ceramic language, wheel throwing, hand building, and sculpting techniques. Through this course students will focus on technical, aesthetic, historical and contemporary concerns of ceramic artists as they develop their own personal and creative expression. There will be an emphasis and application of the art elements and composition principles of art applied to designing and producing ceramic forms.

\$15 Art Fee

532217: CERAMICS II

Prerequisite: Ceramics I

Elective: Grades 10, 11 or 12

This course will encourage students to continue their exploration of the processes and techniques used to shape and finish clay. Students will learn advanced wheel throwing, decoration, and sculpting techniques in the creation of unique artistic expressions. Exposure to the works of other ceramic artists will aid students to creatively solve technical and aesthetic challenges, in satisfying their artistic vision in a visual style specific to them.

\$15 Art Fee

534884: CERAMICS III

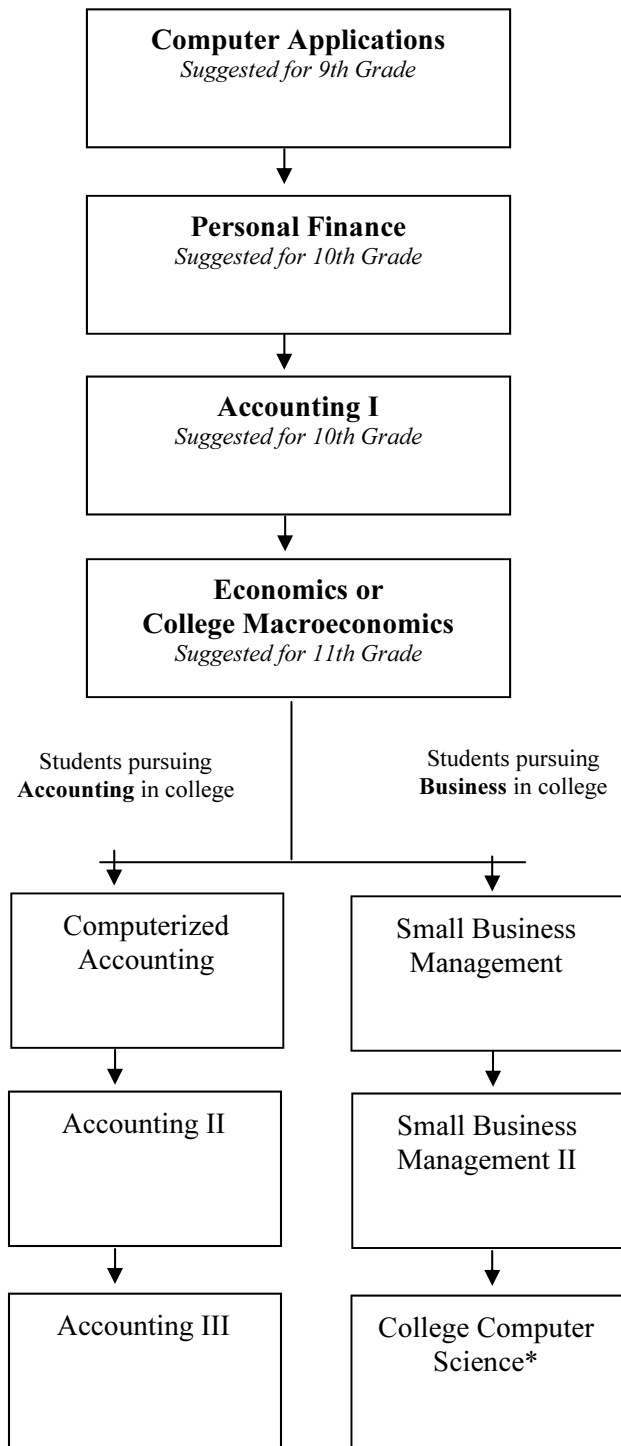
Prerequisite: Ceramics I and Ceramics II

Elective: Grades 10, 11 or 12

In this course, students will individually work to enhance their designing and technical proficiencies in creating 3D ceramics in developing a cohesive body of work. A deepening understanding of design will aid the student to produce ceramic works in pursuance of personal artistic voice. Students will continue to look at other professional ceramic artists' pieces to incorporate various advanced techniques into their work. Students will also begin documenting a digital portfolio of breadth of their work.

\$20 Art Fee

BUSINESS



532303: COMPUTER APPLICATIONS

Required: Grades 9, 10, 11 or 12

This course will be taught using Microsoft Office Applications: Word, Excel, and PowerPoint. It will also include a brief review of keyboarding fundamentals focusing on the touch-type method of data entry. Proper technique will be emphasized throughout the course. Content from this course will be beneficial to students for use in most DCHS coursework and throughout their lives. Suggested for 9th grade.

532314: PERSONAL FINANCE

Required: Grades 10, 11 or 12

This course will focus on content and procedures for managing personal finances. Content will include budgets, investing, banking, checking, credit, insurance and career choice. Suggested for 10th grade.

532312: ECONOMICS

Required: Grades 11 or 12

This course will teach fundamental economic concepts, microeconomics, macroeconomics and international/global economics. Specific topics that will be studied include supply, demand, wages, government revenue, government spending and international trade. This course will be both practical and challenging. Suggested for 11th grade.

532310: SMALL BUSINESS MANAGEMENT I

Elective: Grades 10, 11, or 12

This course will use retailing to help develop skills that can be used in any career. Content will range from retailing and e-tailing, market strategy, merchandise planning, buying and pricing merchandise, to store design and visual merchandising, promotion and advertising, selling and customer service, management and career exploration.

535035: SMALL BUSINESS MANAGEMENT II

Elective: Grades 11 or 12

This course will use advanced concepts in retailing to help develop skills that can be used in any career. Content will contain the same concepts of study as Small Business Management I, but at an advanced level. This course will be offered trimester 3.

College Credit Available.

This course has been articulated with Ridgewater College.

BUSINESS

ACCOUNTING SEQUENCE

In order to maximize learning, students should not have more than one term between accounting classes. Students planning to pursue work in any business or post-secondary education as a business major should take at least Accounting I-III and Computerized Accounting. For those looking at accounting as a college major, Independent Studies may be available in Accounting IV.

532306: ACCOUNTING I

Elective: Grades 10, 11 or 12

Students will learn the basic accounting cycle: analyze basic business transactions into their debit/credit parts, journalize, post, prepare a worksheet and financial statements, make adjusting and closing entries and complete a simulation set for a service business owned by one person as a sole proprietor. In addition, a working knowledge of vocabulary is emphasized.

532317: COMPUTERIZED ACCOUNTING QUICK-BOOKS

Prerequisite: Accounting I

Elective: Grades 10, 11 or 12

After students have learned the fundamental principles and concepts of accounting, the next logical step is to apply this information to real world technology. Students will integrate accounting techniques and methods to reinforce concepts already learned. Students will look at using auditing techniques to self-correct errors and analyze data.

532307: ACCOUNTING II

Prerequisite: C or better in Accounting I

Elective: Grades 10, 11 or 12

In Accounting II students will continue using the accounting cycle with an introduction to a merchandising business that is organized as a corporation. Special Journals are introduced along with payroll records and payroll taxes. Accounting vocabulary is continually built and students will complete a full monthly fiscal period's worth of work in a simulation set.

COLLEGE MACROECONOMICS

2 Trimesters

Prerequisite: Top 33% of junior class or top 50% of senior class.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

This is a Southwest Minnesota State University (Marshall, MN) 200-Level Macroeconomics course. Students thinking about a career in the business field are encouraged to take this course.

535037: COLLEGE MACROECONOMICS A

535038: COLLEGE MACROECONOMICS B

Upon successful completion of the course students will earn 3 credits from SMSU. This course also completes the Economics graduation requirement. Students will learn national income analysis; determinants of GDP and the level of economic activity; unemployment; inflation and non-inflationary full employment; government spending and taxation; the monetary system and Federal Reserve policy; international trade; and how other economic systems work. This course requires a mathematical background including two years of high school algebra.

Business Courses Offered Next Year (2013-2014)

ACCOUNTING III

Prerequisite: C or better in Accounting II

Elective: Grades 10, 11 or 12

This course is weighted for class ranking purposes.

Specific units such as depreciation, allowance for uncollectible accounts, inventory control, notes receivable and payable, analyzing/interpreting financial statements, departmental, branch and cost accounting, and simulation set is included in this offering. Accounting vocabulary is continually built.

College Credit Available.

This course has been articulated with the Minnesota State College System.

COLLEGE COMPUTER SCIENCE

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

An overview of mainframe and personal computers. Topics include: application software, the Internet, hardware components and peripheral devices, and data processing. Students will register into the SMSU academic system and upon successful completion of the assigned course work will receive 3 credits on a SMSU transcript.

ENGLISH

9th Grade

English 9A
or
Honors English 9A*
(Requires teacher approval)

English 9B
or
Honors English 9B*
(Requires teacher approval)
or
Reading 9
(Requires teacher approval)

10th Grade

English 10A
or
Honors English 10A*
(Requires teacher approval)
or
Reading 10
(Requires teacher approval)

English 10B
or
Honors English 10B*
(Requires teacher approval)
or
Writing 10
(Requires teacher approval)

11th/12th Grade

Writing Class:
(Choose 1)
Advanced Comp*
or
Expressive Writing
or
Practical Writing
or
Journalism

Speech
(Required)

Explorations in Literature
(Required)

Choose 1
Additional Elective:
Intro to Theatre Arts
or
Literature and Film
or
College English*
or
an additional
writing class
or
MCA Reading
(Requires teacher approval)

*Indicates a weighted course

ENGLISH

532431: ENGLISH 9 A

532432: ENGLISH 9 B

2 Trimesters

Required: Grade 9

English 9 is a combination of literature, writing, speaking, and grammar. Students will also complete an extensive vocabulary study. The units literature studied includes short stories, poetry, a novel, and a 5-act play. Most writing is in response to literature.

532405: HONORS ENGLISH 9 A

532406: HONORS ENGLISH 9 B

2 Trimesters

Prerequisite: Counselor/teacher recommendation.

Elective: Grade 9

This course is weighted for class ranking purposes.

This class is designed for high achieving students in the area of English who would benefit from an accelerated, more advanced curriculum, with emphasis placed on the higher levels of Bloom's taxonomy and creativity. Students will study a variety of literary forms, including Shakespearean drama, poetry, and a novel. Students will complete an extensive vocabulary study. The writing process is emphasized, along with continued studies in grammar, mechanics, and usage.

READING 9

Elective: Counselor/teacher recommendation.

This course is designed to meet the requirements of English 9B, which is a combination of literature, writing, speaking, and grammar. In addition to the components of English 9B, more time will be devoted to the five-paragraph essay structure. Students will also complete an extensive vocabulary study. The units of literature studied includes short stories, poetry and a novel.

532433: ENGLISH 10 A

532434: ENGLISH 10 B

2 Trimesters

Required: Grade 10

English 10 is a combination of literature, writing, grammar, and media literacy. The focus of writing instruction in English 10 is to reinforce the writing process through expository writing, including paragraphs, essays, and a research-based report. Students will complete an extensive vocabulary study. A short oral presentation is also a required part of the class.

532436: HONORS ENGLISH 10 A

532437: HONORS ENGLISH 10 B

2 Trimesters

Prerequisite: Counselor/teacher recommendation.

Elective: Grade 10

This course is weighted for class ranking purposes.

This class is designed for high achieving students who would benefit from an accelerated, more advanced curriculum, with emphasis placed on the higher levels of Bloom's Taxonomy and creativity. Students will study a variety of literary forms, including nonfiction and poetry. The focus of writing instruction in Honors English 10 is to reinforce the writing process through expository writing, including essays and a research-based report, while working on writing style and voice. Students will complete extensive vocabulary and grammar studies. A short oral presentation is also a required part of the class.

READING 10

Prerequisite: Counselor/teacher recommendation.

This course is designed to meet the requirements of English 10A, which is a combination of literature, writing, grammar, and media literacy. In addition to the components of English 10A, a more intensive study of reading skills will be completed. Students will complete an extensive vocabulary study. A short oral presentation is also a required part of the class.

WRITING 10

Prerequisite: Counselor/teacher recommendation.

This course is designed to meet the requirements of English 10B, which is a combination of writing, grammar, and media literacy. The focus of writing instruction is to reinforce the writing process through expository writing, including paragraphs, essays, and a research-based report. Students will complete an extensive vocabulary study. A short oral presentation is also a required part of the class.

ENGLISH

532416: SPEECH

Required: Grades 11 or 12

Students will use verbal and nonverbal communication skills in a variety of speaking situations. Some of the speaking situations include public speaking, interpersonal communication, and debate. Students will also learn to prepare effectively for each speaking situation.

Strongly suggested for 11th grade.

532444: EXPLORATIONS IN LITERATURE

Required: Grades 11 or 12

Students will explore a variety of themes by reading short stories, poems, essays, plays, and novels written by authors from around the world. Recognizing our place in a global society will be emphasized throughout.

Strongly suggested for 11th grade.

532417: PRACTICAL WRITING

Elective: Grades 11 or 12

The purpose of this course is to prepare 2-year college bound or work bound students for a variety of personal and professional writing situations they may encounter in life. Personal forms of writing will include memos, letters of request and complaint. Professional forms of writing will include a resume, cover letter, including a career unit consisting of research and a presentation. Group work and projects will focus on technical writing. Basic writing skills will be reinforced throughout.

532411: JOURNALISM AND NEWS MEDIA

Elective: Grades 11 or 12 (Grade 10 by recommendation)

Students will study principles of video and produce a news video feature story, as well as learn basic concepts of reporting, photography, layout and design. These skills will be applied in production of actual news media such as newspaper pages, TV news broadcasts, etc. As time permits, students will study other forms of media, their sources, influences, and methods of production. This class is highly recommended for students interested in joining DCTV as a co-curricular activity, but it is also ideal for anyone interested in pursuing any field related to communications or any student with an interest in learning more about forms of mass media in our society.

532415: EXPRESSIVE WRITING

Elective: Grades 11 or 12

The purpose of this class is to encourage self-expression through creative writing in a nonthreatening atmosphere. The focus of the course will be fiction and poetry writing. To build creative writing skills, a variety of shorter sketches will be written. The class will culminate in the publication of a personal book and a class anthology of creative work.

532418: ADVANCED COMPOSITION

Prerequisite: An average grade of "B-" or better in English 10B or by teacher recommendation.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

The course prepares college bound students with the necessary research/writing skills needed to be successful. Students will follow the research/writing process by selecting a topic, researching, and writing a quality rough and final draft which will meet exact specifications. Additionally, students will do an on-going vocabulary study.

MCA READING

Prerequisite: Counselor/teacher recommendation.

Elective: Grades 11 or 12

This course is designed to increase specific reading skills for students. Daily vocabulary, nonfiction articles, and various fiction novels and short stories will be used. Students will be expected to keep a vocabulary notebook, and quizzes will be given periodically. The focus of instruction will be preparation for the MCA Reading Test.

535354: INTRODUCTION TO THEATRE ARTS

Elective: Grades 9, 10, 11 or 12

This course is an introduction to theater through all aspects of a dramatic stage production. Emphasis will be placed on acting (mime work, improvisation, storytelling, monologues, etc.) and basic stage craft elements such as prop and set making, costume choice, make-up, lighting and sound for productions, stage management, etc. This course may be an English elective credit or a Fine Arts credit.

535355: LITERATURE AND FILM

Elective: Grades 11 or 12

This course is a study of the intersection between literature and film. It will explore such topics as adapting fiction, drama, and nonfiction works to film in order to gain an understanding of the possibilities-and problems-involved. Students are cautioned that this course requires extensive reading and writing in addition to viewing films and taking part in class discussions. A goal of this course is to teach students to be analytical and evaluative consumers of what they read and view.

ENGLISH

COLLEGE ENGLISH

3 Trimesters

Prerequisite: Advanced Composition and top 33% of junior class or top 50% of senior class.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

A total of up to seven (7) credits can be earned through Southwest Minnesota State University. Taking a college level course here at DCHS affords students the opportunity to receive college credit while still being part of their high school activities and environment.

535001: COLLEGE ENGLISH 151 A

This is the grammar component of the overall course. Structure and usage will be addressed throughout the class.

535002: COLLEGE ENGLISH 151 B

This course requires four short papers using the first person point of view and focusing on personal experience and memories. Materials in *The St. Martin's Guide to Writing* and *St. Martin's Handbook* will provide guidance, sample papers, and suggested preparatory assignments for these papers.

535003: COLLEGE ENGLISH LITERATURE 120

This course focuses on writing essays based on critical analysis, research and some documented information. This writing will be done in third person. Three short papers plus a research paper are required. Some of the writings will be in response to literature. Texts for this course are listed above.

534796: DCTV A

534797: DCTV B

534798: DCTV C

Prerequisite: Journalism not required but strongly recommended.

Elective: Grades 11 or 12 (Does not count towards an English credit)

While DCTV is an extracurricular activity at DC, students may sign up to work on DCTV as an independent study during the school day. Students will act as reporters and video editors to create video news and feature stories to be aired on weekly DCTV broadcasts. Students will use an online classroom to help learn the skills needed to help produce the weekly episodes.

FAMILY AND CONSUMER SCIENCE

534668 : CREATIVE FOODS

Elective: Grades 9, 10, 11 or 12

Join this class to learn basic food preparation skills. Students will study and prepare foods based on the food groups represented in the food pyramid. Topics include reading recipes, cooking terms, measuring, equivalents, and food and kitchen safety. Nutrition for life long wellness will be emphasized. **A fee of \$20 is required for food lab materials and supplies.**

534669: FOODS OF THE WORLD

Elective: Grades 9, 10, 11 or 12

In this course, students will examine the cultural, spiritual, and dietary influences of various countries around the world. Students will understand how geography, agriculture and climate affect the development of cuisine. Students will prepare foods to gain an awareness and understanding of diverse populations within our society.

A fee of \$20 is required for food lab materials and supplies.

534671: INTERIOR DESIGN

Elective: Grades 9, 10, 11 or 12

This class will offer students the opportunity to learn the principals and elements of design when planning interior living spaces. Students will identify the factors in selecting a place to live, analyze floor plans, and draw interiors to scale. Students will design a room of their choice and complete a design board to display their selections. A quilt sewing project is also included.

534674: TEEN ISSUES

Elective: Grades 10, 11 or 12

This course explores the many issues teens face in their everyday lives. Students will examine relationships with family, friends, and others. Units of study include how to develop friendships, positive communication skills, dealing with stress, dating, marriage, personal safety, decision making, and planning for the future.

534672: THE YOUNG CHILD I*

Elective: Grades 10, 11 or 12*

Note: Students must provide transportation to the elementary schools for class project. See description below.

Learn about the development of a child from conception to age ten. Students will examine the mental, social, emotional and physical stages of development.

535353: THE YOUNG CHILD II*

Prerequisite: Young Child I

Elective: Grades 10, 11 or 12*

Note: Students must provide transportation to the elementary schools for class project. See description below.

Upon successful completion of Young Child 1, students will complete a service project in an elementary or preschool classroom for the majority of the trimester. Students will work directly with younger students to plan activities, complete formal observations, record findings and weekly journals.

***College credit opportunity:**

Juniors and seniors may choose to take these courses for three college credits through Ridgewater College. Students must earn a grade of "B" or better in Young Child I and II to qualify. Both Young Child I and II need to be taken during the same school year in order to receive college credit.

534670: CULINARY ARTS

Prerequisite: Creative Foods

Elective: Grades 11 or 12

Students will learn about the artistic side of food preparations using advanced skills and techniques. Entertaining, food presentation, planning and time management will be included in student projects. Students will host a "Culinary Café" for staff and community members. Students will also investigate career options in the food and hospitality industries.

A fee of \$20 is required for food lab materials and supplies.

INDUSTRIAL TECHNOLOGY

532809: BASIC WOOD

Elective: Grades 9, 10, 11 or 12

Students will learn basic safety in the shop setting. They will become familiar with materials available and how to put them together. In this course other disciplines are integrated into the design of a simple project, i.e. math and art are applied to create a project. Students will finish a simple project with quality.

532810: ADVANCED WOOD

Prerequisite: Basic Wood

Elective: Grades 9, 10, 11 or 12

Students will learn safety in a job and shop setting. Materials available for quality projects may be purchased from the school. Students will learn and demonstrate methods of joining materials together and different processes involved. Students will design and build a difficult project requiring higher levels of thinking.

532811: CABINET & FURNITURE

Prerequisite: Basic Wood and Advanced Wood

Elective: Grades 9, 10, 11 or 12

Students will learn safety in a job and shop setting. Materials available for quality projects may be purchased from the school. Students will practice layout and design of a simple cabinet and become familiar with panel and other types of doors. Students will construct a cabinet project. In this course other disciplines are integrated into the design of a simple project, i.e. math and art are applied to create a project. Students will finish a simple project with quality.

532803: MACHINE TOOLS I

Elective: Grades 9, 10, 11 or 12

Students learn about basic manufacturing processes. Students will make various projects using milling, turning, drilling, bending, conditioning, forming and combining processes. Computer controlled machining (CNC) is also introduced.

College Credit Available.

This course has been articulated with the Southern Minnesota State College System Consortium.

532804: MACHINE TOOLS II

Prerequisite: Machine Tools I

Elective: Grades 9, 10, 11 or 12

This course begins where Machine Tools I ends. The operation of manual machines and blueprint reading will be studied in greater depth. Using Mastercam software and computer numerical control (CNC) machines, students will create various parts/projects using the CADD/CAM process.

College Credit Available.

This course has been articulated with the Southern Minnesota State College System Consortium.

532805: WELDING I

Elective: Grades 9, 10, 11 or 12

Students will learn basic oxy-acetylene and arc welding processes for mild steel applications. Oxy-acetylene, plasma cutting and soldering processes are introduced. Students will design and construct a project toward the end of the class.

532806: WELDING II

Prerequisite: Welding I

Elective: Grades 9, 10, 11 or 12

This course is a continuation of Welding I, with a heavier emphasis on out-of-position welding and blueprint reading skills. Mig "wire feed" and Tig "Heliarc" welding processes are also taught. With these skills and processes, stainless steel, aluminum and other alloys can be welded. Students design, fabricate and repair various projects of their interest.

532823: COMPUTER AIDED DRAFTING & DESIGN (CADD)

Elective: Grades 9, 10, 11 or 12

Students will learn fundamental drafting principals and drawing techniques. Starting with 2-dimensional drawings, students will learn how to draw and interpret orthographic and isometric drawings. With a foundation laid, 3-dimensional solid modeling will be explored. Here students will explore the 3D world and design multi-piece parts that interact to form a working model. At the conclusion of the class, students are introduced to architectural drafting. They will draw a set of plans for a one-story house.

College Credit Available.

This course has been articulated with the Southern Minnesota State College System Consortium.

532813: ARCHITECTURAL DRAWING

Elective: Grades 9, 10, 11 or 12

Students will become familiar with architectural design concepts, materials and construction techniques. Using 3D software, students will design two sets of house plans and a remodel/addition plan. Students will also create a computer generated walk through simulation of their projects.

532815: HOME CONSTRUCTION A

532816: HOME CONSTRUCTION B

532817: HOME CONSTRUCTION C

Prerequisite: Basic Wood or CADD

Elective: Grades 11 or 12 (Preference will be given to seniors)

Students will learn safety on the job as well as in the shop. Construction methods using materials used in today's construction will be employed. Students will become familiar with standards of construction and building codes in the state as well as country. The class will build a 28' x 48' house. Students will develop self-confidence and a sense of pride in workmanship. Students will integrate all disciplines into this project.

MATH

All Math Courses count towards the Math Graduation Requirement

Incoming Freshman placement is determined by the 8th grade Math teachers. This is a guideline to show typical progression in the Math sequences. If you need more assistance in developing your Math sequence, please contact the Guidance Counselor.

Grade	Traditional A Sequence
9th	Intermediate Algebra Geometry A Geometry B
10th	Algebra II A Algebra II B Intro to Stats
11th	Trigonometry College Algebra A or AP Stats A College Algebra B or AP Stats B
12th	Pre-Calculus College Algebra A or AP Stats A College Algebra B or AP Stats B

Grade	Traditional B Sequence
9th	Intermediate Algebra Geometry A
10th	Geometry B Algebra II A
11th	Algebra II B Trigonometry
12th	College Algebra A College Algebra B

Grade	Accelerated Sequence
9th	Geometry A Geometry B Algebra II A
10th	Algebra II B Intro to Stats Trigonometry
11th	Pre-Calculus College Algebra A or AP Stats A College Algebra B or AP Stats B
12th	College Algebra A or AP Stats A or College Calculus A College Algebra B or AP Stats B or College Calculus B or College Calculus C

Grade	Alternative Sequence
9th	Algebra Foundations A Algebra Foundations B
10th	Geometry Foundations A Geometry Foundations B
11th	Algebra Foundations II Intro to Stats MCA Math
12th	

MATH

All Math Courses count towards the Math Graduation Requirement

Graphing calculators are required for Intermediate Algebra and beyond. Students are required to purchase their own calculators, especially if they will be taking math courses within the next two or three years. The Math Department suggests purchasing a TI 83 or a TI 84 graphing calculator, as these models are currently being used by the students in class and have the capabilities for upper level and college math courses.

535040: ALGEBRA FOUNDATIONS A

535041: ALGEBRA FOUNDATIONS B

2 Trimesters

Prerequisite: Students will be placed in these courses by teacher recommendation

Elective: Grades 9, 10, 11 or 12

In these courses, students will review basic algebra concepts and be introduced to non-linear functions including exponentials, polynomials, quadratics, radicals and rationales.

535042: GEOMETRY FOUNDATIONS A

535043: GEOMETRY FOUNDATIONS B

2 Trimesters

Prerequisite: Algebra Foundations

Elective: Grades 9, 10, 11 or 12

This course will introduce students to the tools of geometry, including reasoning and proof, parallel and perpendicular lines, congruent triangles, relationships within triangles, and polygons and quadrilaterals, similarity, right triangle and trigonometry, area, surface area and volume, properties of circles, and transformations.

535044: INTERMEDIATE ALGEBRA

Prerequisite: Successful completion of Algebra I in 8th grade

Elective: Grades 9, 10, 11 or 12

In this course students will study non-linear functions, including exponentials, polynomials, quadratics, radicals and rationales.

535045: GEOMETRY A

Prerequisite: Intermediate Algebra

Elective: Grades 9, 10, 11 or 12

In this course students will be introduced to the tools of geometry, including reasoning and proof, parallel and perpendicular lines, congruent triangles, relationships within triangles, and polygons and quadrilaterals.

535046: GEOMETRY B

Prerequisite: Geometry A

Elective: Grades 9, 10, 11 or 12

In this course students will study topics including similarity, right triangle and trigonometry, area, surface area and volume, properties of circles, and transformations.

535047: INTRO TO STATISTICS

Prerequisite: Geometry B

Elective: Grades 9, 10, 11 or 12

In this introductory statistics course, students will study descriptive statistics, which involves methods of organizing, picturing, and summarizing information from samples or populations. Students will also study basic probability, including topics of probability rules, counting techniques, random variables, binomial and normal distributions.

535048: ALGEBRA II A

Prerequisite: Geometry B

Elective: Grades 9, 10, 11 or 12

In this course students will study topics including expressions, equations and inequalities, functions, equations and graphs, linear systems, quadratic functions and equations, polynomials and polynomial functions, radical functions and rational exponents, and exponential and logarithmic functions.

535049: ALGEBRA II B

Prerequisite: Algebra II A

Elective: Grades 9, 10, 11 or 12

In this course students will study topics including rational functions, sequences and series, probability and statistics, matrices, periodic functions and trigonometry, and trigonometric identities, and equations.

MATH

All Math Courses count towards the Math Graduation Requirement

535050: TRIGONOMETRY

Prerequisite: Algebra II B

Elective: Grades 10, 11 or 12

This course is weighted for class ranking purposes.

This upper level mathematics course reviews functions and their graphs and exponential and logarithmic functions. The rest of the trimester involves the study of trigonometry, including right triangle and unit circle trigonometry, and trigonometric formulas, identities and equations.

532940: PRE-CALCULUS

Prerequisite: Trigonometry

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

In this course students will study topics including a review of fundamental concepts of algebra, polynomial and rational functions, sequences, series and probability, and an introduction to limits and calculus.

532935: ADVANCED PLACEMENT STATISTICS A

532936: ADVANCED PLACEMENT STATISTICS B

2 Trimesters

Prerequisite: Intro to Statistics and Algebra II B

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

Advanced Placement Statistics is the equivalent to a one-semester non-calculus based college course, similar to an introductory statistics course required in many colleges for majors such as social sciences, health sciences, and business. Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The AP exam is given at the end of the course; the amount of college credit earned is determined by the score on this exam. This course is two trimesters in length and is offered second and third trimester.

Students may earn college credit by passing the Advanced Placement Exam in May.

COLLEGE CALCULUS

3 Trimesters

Prerequisite: Pre-Calculus and top 33% of junior class or top 50% of senior class

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

A total of up to eight credits can be earned through Southwest Minnesota State University. Taking a college level course at DCHS affords students the opportunity to receive college credit while still being a part of their high school activities and environment.

535356: COLLEGE CALCULUS I

We will have a brief pre-calculus review. Topics covered in this trimester include limits and their properties, differentiation, applications of differentiation,.

535357: COLLEGE CALCULUS I/II

Topics covered in this trimester include Integration, the calculus of logarithmic, Exponential, and other transcendental functions, differential equations, and applications of integrals.

535358: COLLEGE CALCULUS II

Topics covered in this trimmest include integration techniques, L'Hopitals Rule, Improper integrals, infinite series (including Taylor and MacLaurin Series), conics, parametric equations, and polar coordinates.

535051: COLLEGE ALGEBRA A

535052: COLLEGE ALGEBRA B

2 Trimesters

Prerequisite: Trigonometry and top 33% of junior class or top 50% of senior class.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

Three credits can be earned through Southwest Minnesota State University. This course is two trimesters in length and includes the following topics: fundamental concepts of algebra, equations and inequalities, functions and graphs, polynomial and rational functions, inverse, exponential and logarithmic functions, and systems of equations and inequalities.

MUSIC

All Music Courses count towards the Fine Arts Graduation Requirement

9th GRADE MUSIC

Concert band and choir will be offered during this period. The hour will be divided so students may participate in both band and choir.

Attendance at all performances is mandatory.

533145: CONCERT BAND 9 A

533146: CONCERT BAND 9 B

533147: CONCERT BAND 9 C

Prerequisite: Participation in middle school band or permission from the instructor.

Every Trimester

Elective: Grade 9

Students are strongly encouraged to take Concert Band B if registering for one trimester of band. If registering for two trimesters of band, students are strongly encouraged to take Concert Band A and Concert Band B.

Concert band is a focused study on a chosen instrument to develop musicianship, music reading skills, and performance skills. Performance of all types of music literature will demonstrate understanding and level of development. Formal concerts will be given during the year plus many other performance opportunities. Grades will be based on classroom participation, performance, pep band gigs, formal concerts, and contest participation. Other opportunities as an outgrowth of 9th grade band include marching band, Drumline, and jazz ensembles.

Students taking both band and choir use these numbers:

533151: BAND/CHOIR 9 A

533152: BAND/CHOIR 9 B

533153: BAND/CHOIR 9 C

535066: CHARGER CHOIR/CHORAL STUDIES 9 A

535067: CHARGER CHOIR/CHORAL STUDIES 9 B

535068: CHARGER CHOIR/CHORAL STUDIES 9 C

Every Trimester

Elective: Grade 9

Students are strongly encouraged to take Charger Choir 9 A if only one trimester of choir is desired. If only two trimesters of choir are desired, students are strongly encouraged to take Choir 9 A and Choir 9 B.

Charger Choir will focus on helping students through the transition from the choral facet of 8th grade music to high school choir. Along with this focus, attention will be given to the development of the individual voice, sight reading skills, rehearsal demeanor and musical appreciation and understanding. Each trimester will involve an individual voice lesson to document a student's progress from trimester to trimester. Other forms of assessment may include the analysis of choral performances and the analysis of one's individual performance. Solo and/or ensemble preparation and performance for the class will be required in Charger Choir 9C during the 3rd trimester. The choir will perform at concerts and events throughout the year to showcase class achievement and to develop and foster performance skills and experience.

Choir students who are not in band will have Choral Studies 9 the other half of the period. Choral Studies will focus on musicianship and technical skills using the study of sight reading and music theory. Choral Studies 9A will have a focus on developing and preparing students' voices for high school choir. Another main component of Choral Studies will be the study of the piano to develop musical literacy and understanding, confidence, and performance skills and experience. Students will prepare music on the piano and have the opportunity to perform for the class. Students will also have the opportunity to learn how to warm-up and accompany the choir using the piano.

Music Students who would like help developing a plan on how to have music each trimester, please contact the Guidance Counselor to set up an appointment.

MUSIC

All Music Courses count towards the Fine Arts Graduation Requirement

10th, 11th, 12th GRADE MUSIC

The hour will be divided so students may participate in both band and choir.

Attendance at all performances is mandatory.

533160: SYMPHONIC BAND A

533161: SYMPHONIC BAND B

533162: SYMPHONIC BAND C

Prerequisite: Participation in 9th grade band or permission from the instructor.

Every Trimester

Elective: Grades 10, 11 or 12

Students are strongly encouraged to take Symphonic Band B if registering for one trimester of band. If registering for two trimesters of band, students are strongly encouraged to take Symphonic Band A and Concert Band B.

Symphonic band is a focused study on a chosen instrument. Large group rehearsal as well as solos and ensembles will rehearse during the course of the year. Technique receiving concentration will include tone, articulation, balance, blend, and intonation. Music selections will cover a wide genre of music from earliest forms and styles to the most contemporary and popular styles. Formal concerts and events will be given during the year plus many other performance opportunities. Grades will be based on classroom participation, performance, pep band, formal concerts and contests. Other opportunities as an outgrowth of concert band will be jazz ensemble, marching band and Drumline.

534853: INDEPENDENT STUDY MUSIC

Prerequisite: Permission from the instructor.

Elective: Grades 11 or 12

Independent Study Music is a focused study of music theory, music history and techniques on a specific instrument. Since the number of independent studies will be limited, students who are interested must have prior approval from the Choir or Band instructor. Priority will be given to those students pursuing a career in music.

Students taking both band and choir use these numbers:

533163: BAND/CHOIR 10-12 A

533164: BAND/CHOIR 10-12 B

533165: BAND/CHOIR 10-12 C

535063: CONCERT CHOIR/CHORAL STUDIES A

535064: CONCERT CHOIR/CHORAL STUDIES B

535065: CONCERT CHOIR/CHORAL STUDIES C

Prerequisite: Previous enrollment in 9th grade choir and/or approval from the instructor.

Every Trimester

Elective: Grades 10, 11 or 12

Students are strongly encouraged to take Concert Choir A if only one trimester of choir is desired. If only two trimesters of choir are desired, students are strongly encouraged to take Concert Choir A and Concert Choir B.

Concert Choir will focus on helping students develop a deeper understanding of choral music and the choral ensemble. Along with this focus, attention will be given to the development of the individual voice, sight reading skills, rehearsal demeanor and musical appreciation and understanding. Each trimester will involve an individual voice lesson to document a student's progress from trimester to trimester. Other forms of assessment may include the analysis of choral performances and the analysis of one's individual performance. Solo and/or ensemble preparation and performance for the class will be required in Concert Choir C during the 3rd trimester. The choir will perform at concerts and events throughout the year to showcase class achievement and to develop and foster performance skills and experience.

Choir students who are not in band will have Choral Studies the other half of the period. Choral Studies will focus on musicianship and technical skills using the study of sight reading and music theory. Another main component of Choral Studies will be the study of the piano to develop musical literacy and understanding, confidence, and performance skills and experience. Students will prepare music on the piano and have the opportunity to perform for the class. Students will also have the opportunity to learn how to warm-up and accompany the choir using the piano. Basic conducting and rehearsing will be learned towards the end of each trimester and students will have the opportunity to conduct the class and learn how to run a sectional and a full choir rehearsal.

Music Students who would like help developing a plan on how to have music each trimester, please contact the Guidance Counselor to set up an appointment.

OTHER

534854: CERTIFIED NURSING ASSISTANT (CNA)

Elective: Grades 11 or 12

Note: Limit 15 students with senior priority.

This course is weighted for class ranking purposes.

This course helps students learn the roles and responsibilities of the nursing home assistant working in long term care. Information about resident's and client's rights, pertinent laws and ethical issues will be introduced. Concepts of basic human needs, basic nursing and personal care skills, mental health and social needs, and restorative services will also be addressed throughout the course. The skills are performed in a supervised laboratory and long-term setting.

Commitments for the CNA course are:

1. Follow Ridgewater attendance/course expectations
2. \$160 cost of final test-out (Retake of test-out: \$95)
3. \$15-\$20 cost of uniform for Clinicals
4. White leather shoes
5. Matoux test for TB
6. Agree to a background check
7. Clinicals will be after school from 3:30 -9:30 p.m.
8. Must complete clinicals on two weekends – Saturday and Sunday for a total of 28 hours

532606: DRIVERS EDUCATION & SAFETY

Elective: Grades 9, 10, 11 or 12

Note: 2012-2013 fees have not been set at this time. Participants should anticipate a combined fee for the Drivers Education Course and Behind the Wheel of around \$260 based on the 2011-2012 fees.

Driver's Education helps develop awareness of risks in driving which is a critical life skill. This is the classroom requirement of the Minnesota Graduated Driver's License Law, which prepares students to take the driver's permit exam. This course will also identify the need for and value of first aid training for self-help, vehicle emergencies and crisis situations.

NOTE: In order for a student to receive behind the wheel instruction through the Driver's Education Program, they must have been in compliance with the Driver Education Policy 650. This information is available to students and parents during ninth grade orientation and during the classroom phase. For students who are new to the district, it is their responsibility to obtain this information if they plan to take Behind the Wheel.

PHYSICAL EDUCATION AND HEALTH

FITNESS ACTIVITIES IN THE SWIMMING POOL COULD BE INCORPORATED INTO ELECTIVE CLASSES

*Please note, the Guidance Office reserves the right to limit the number of times a student enrolls in Team Sports and/or Strength Training and Conditioning, dependent upon other students requests.

532602: PHYSICAL EDUCATION 9

Required: Grade 9

It is the objective of this course to develop muscular strength, endurance, coordination, skills, leadership qualities, teamwork and an appreciation for lifetime sports. This appreciation is gained through practicing and testing of fundamental skills, participation and knowledge of the rules.

532601: HEALTH & WELLNESS 10

Required: Grade 10

This course will focus on personal health and wellness. The student will strive to develop health knowledge, decision making skills and behavior skills to build a lifelong healthy life-style and avoid problems in the following areas: tobacco use, alcohol and other drug use, sexual behaviors leading to HIV/ other STD's, and unintended pregnancy, intentional and unintentional injury, sedentary life style and poor dietary practices.

532612: PERSONAL SAFETY AND FITNESS

Elective: Grades 10, 11 or 12

Note: This course can be used to meet the PE requirement.

This course introduces basic self-defense techniques, as well as providing vital information on personal safety, awareness, risk reduction and avoidance. Students will also develop individual fitness levels through a variety of training methods designed to improve the health fitness components: cardiovascular endurance, body composition, muscular endurance and strength, and flexibility.

Fitness activities in the swimming pool are a component of this class.

532614: TEAM SPORTS

Elective: Grades 10, 11 or 12*

Note: This course can be used to meet the PE requirement.

This course will emphasize team activities that will develop sportsmanship and teamwork. Students will acquire an appreciation for various activities, have knowledge of the rules of the games, and be given an opportunity to develop advanced skills and strategies. Team sports may include, but are not limited to, games and variations of games such as: softball, volleyball, basketball, soccer, football, ultimate Frisbee, team handball, lacrosse, etc. These team sports may also be seasonal depending on the trimester that the course is offered.

532615: INDIVIDUAL AND DUAL ACTIVITIES

Elective: Grades 11 or 12

Note: This course can be used to meet the PE requirement.

The emphasis of this course is on individual and dual activities which can provide lifelong enjoyment. Activities may be recreational, competitive, social, and fitness based. Knowledge of rules, techniques, etiquette, and advanced skills and strategies will be emphasized. Individual and dual activities may include, but are not limited to games such as: golf, badminton, pickleball, table tennis, horseshoes, bocce ball, croquet, ice skating, cross-country skiing, archery, roller blading, fitness, etc. These individual and dual activities may also be seasonal depending on the trimester that the course is offered.

Fitness activities in the swimming pool are a component of this class.

532613: STRENGTH TRAINING & CONDITIONING

535039: FEMALE STR/TRNG/CONDITIONING

Elective: Grades 10, 11 or 12*

Note: This course can be used to meet the PE requirement.

Females who prefer to be in a mixed gender course, please sign up for course # 532613.

This course will allow students to participate in a well rounded weight training and conditioning program. The physiological principles of training will be stressed. Activities for the course will include; weight room, agility drills, plyometrics, medicine ball workouts, pilate workouts, cardiovascular workouts, and working on muscular strength, endurance, and flexibility. Students will be able to focus on their individual needs.

Fitness activities in the swimming pool are a component of this class.

535371: TRIATHOLON ENDURANCE TRAINING

Elective: Grades 11 or 12

Prerequisite: Must have successfully completed PE 9 & one other PE course prior to taking this offering.

Note: Students will need a bicycle and helmet for this course.

This course is a higher level fitness class which prepares students to complete a triathlon. Students will build their cardio-respiratory stamina and muscle strength by progressively increasing training distances throughout the trimester. Students will learn about proper training techniques, nutrition, and safety as they prepare. The culmination of this course will have students completing a class sprint triathlon beginning and ending at the high school. The distances of our sprint triathlon will include a 1/4 mile pool swim, 19.8 mile bike ride and 6.2 mile run.

This course will likely be offered during the spring trimester.

PHYSICAL EDUCATION AND HEALTH

FITNESS ACTIVITIES IN THE SWIMMING POOL COULD BE INCORPORATED INTO ELECTIVE CLASSES

*Please note, the Guidance Office reserves the right to limit the number of times a student enrolls in Team Sports and/or Strength Training and Conditioning, dependent upon other students requests.

535372: COLLEGE PE—FITNESS FOR LIVING

Elective: Grades 11 or 12

Prerequisite: Must have successfully completed PE 9 & one other PE course prior to taking this offering and Top 33% of junior class or top 50% of senior class.

This course is designed to provide the ground work for students to be able to design their own total fitness program. This course provides information that is relevant to each person's particular fitness goals, showing students how to alter their programs as their needs change. Individual physical limitations, weight problems and cardio-vascular fitness levels are all significant parts of this course design.

PE Course Offered Next Year (2013-2014)

SPORTS OFFICIATING

Elective: Grades 11 or 12

Prerequisite: Counselor/teacher recommendation. Must have successfully completed PE 9 & one other PE course prior to taking this offering.

Students will work to apply the knowledge and skills gained in previous physical education classes to play and officiate the sports of baseball, basketball, football, softball and volleyball. Officiating rules from the Minnesota State High School League and the Wright County Conference will be used as guides for this course.

Upon successful completion of competencies in this course, a student will become eligible to officiate youth activities within our district.

PROJECT LEAD THE WAY

Project Lead the Way is a high school pre-engineering curriculum centered on developing better problem solving skills by immersing students in real world engineering problems. These courses use project-based, hands on experiences to teach students the key elements and skills of engineering and technology based careers.

For more information on this nationally recognized curriculum, please visit: www.pltw.org

532821: INTRO TO ENGINEERING & DESIGN A

534855: INTRO TO ENGINEERING & DESIGN B

2 Trimesters

Elective: Grades 9, 10, 11 or 12

This course is for those students thinking of entering the field of engineering technology or drafting and design. Using computer modeling software, students learn the process of product design. Students solve design problems as they develop, create and analyze product models.

3 college credits available through the University of Minnesota upon successful completion of course and passing required examination.

532822: PRINCIPLES OF ENGINEERING A

534856: PRINCIPLES OF ENGINEERING B

2 Trimesters

Prerequisite: Intro to Engineering Design not required but strongly recommended.

Elective: Grades 10, 11 or 12

This course is designed to help students who are college bound understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

3 college credits available through the University of Minnesota upon successful completion of course and passing required examination.

SCIENCE

535364: PHYSICAL SCIENCE A

535365: PHYSICAL SCIENCE B

2 Trimesters

Required: Grade 9 (Based on teacher evaluation, some students may advance to Chemistry or Physics.)

Physical Science is a lab-based, physical science class, which will focus on the basic concepts of science. During the school year, students will study selected topics in the fields of chemistry, physics. These two courses will meet standards in physical science. Students will also gain a basic understanding of the nature of scientific inquiry, problem-solving and the limitations of science. These classes will prepare students for a more rigorous chemistry or physics class. Physical Science B or other chemistry based course is required for any biology class.

535366: PHYSICAL SCIENCE: EARTH & SPACE

1 Trimester

Elective: Grades 9, 10, 11 or 12

Physical Science Earth & Space is a data analysis class that uses data over time to determine changes in the earth's Lithosphere and in regards to weather. Students will also have the opportunity to explore concepts in space sciences.

535367: CHEMISTRY A

535368: CHEMISTRY B

2 Trimesters

Prerequisite for Chemistry B: Successful completion or concurrent registration in Algebra II B or higher.

Elective: Grades 9, 10, 11 or 12

Chemistry is a lab based, college-prep course designed to challenge any student interested in furthering their education in the sciences or science related fields. This is a class that goes well beyond the basic level. Students will expand their knowledge of atomic theory, atomic structure, periodic behaviors of the elements, chemical & physical properties of matter, chemical formulas and reactions.

535369: PHYSICS A

535370: PHYSICS B

2 Trimesters

Prerequisite for Physics B: Successful completion or concurrent registration in Algebra II B or higher.

Elective: Grades 9, 10, 11 or 12

Physics is a college-prep course designed to expand a student's understanding of the laws of physics through hands-on labs, discussion, problem-solving techniques and other learning methods. Students will be given multiple opportunities to demonstrate their level of knowledge of each physics related concept. Students will study such topics like mechanics, materials, waves, electricity and atomic physics.

533203: BIOLOGY A

533204: BIOLOGY B

533205: BIOLOGY C

3 Trimesters

Prerequisite: Physical Science B or Chemistry

Required: Grades 10, 11 or 12

Biology is a lab based class devoted to the study of living organisms. Students will gain an understanding of the historical and modern nature of scientific inquiry, the limitations of the process of science, various biology concepts, theories, and principles such as the diversity of living organisms, how they function, and the inter-relationships they have with other organisms.

533208: ANATOMY & PHYSIOLOGY

Prerequisite: 75% average or better in science classes.

Elective: Grades 10, 11 or 12

Note: This course may take the place of BIOLOGY C

This course is weighted for class ranking purposes.

Advanced Biology is a lab based, college-prep class intended for students interested in the natural sciences, animal science, or medicine. This class is an in-depth study of human anatomy and a comparison of the fetal pig and chick embryology. Students will get the opportunity to dissect chick embryos and fetal pigs. Students will gain knowledge in how the human systems (skin, skeletal, muscle, tissue and cell structure, and blood) work and compare these to the fetal pig.

533227: ENVIRONMENTAL SCIENCE OF MN

Elective: Grades 10, 11 or 12

Note: This course may take the place of BIOLOGY C

Environmental Science of MN is a course designed to help students identify the native plants and animals of Minnesota. Students learn about the balance of nature, the interactions between different types of Minnesota wildlife and how humans influence nature. Students taking this class will have the opportunity to conduct scientific research on local wetlands and learn about local wildlife through class projects, the internet, and field observations in a variety of habitats. A background in biology is very helpful.

This is a one trimester class only offered spring trimester.

SCIENCE

535361: BIOTECHNICAL ENGINEERING A

535362: BIOTECHNICAL ENGINEERING B

535363: BIOTECHNICAL ENGINEERING C

Prerequisite: Physical Science B or Chemistry
3 Trimesters

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

Ever think about solving a crime, analyzing DNA, building a car that utilizes alternative fuel, building an aquaponics system, designing cardiac devices, building joints, and wondered how to go about it? This fast paced course is an overview of the various fields associated with BE. As all the units relate to one another, you will apply what you learn to the design and construction of an aquaponics system, a DNA museum, a yeast mobile, a joint and a stent. You may do them as simulations or as real-world experiences that biotechnical engineers encounter when solving problems. A great deal of the class will be completed using computer drafting software.

Biotechnical Engineering A, B and C must all be taken to count as the biology graduation requirement (3 credits). Students may also take Biotechnical Engineering B and C)2 credits) as an elective course if the student already has completed their biology requirements. Upon completion of B and C, students may take the PLTW (Project Lead the Way) assessment test to earn college credit.

COLLEGE CHEMISTRY

3 Trimesters

Prerequisite: Top 33% of junior class or top 50% of senior class, successful completion of Pre-calculus or higher, and chemistry teacher's recommendation.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

This is a Southwest Minnesota State University (Marshall, MN) lab-based chemistry course designed to satisfy the science elective requirement for any college major. Students thinking about a career in science, science instruction at a high school or college level, medicine, or engineering, are strongly encouraged to take this course.

533229: COLLEGE CHEMISTRY 1

533230: COLLEGE CHEMISTRY 2

533231: COLLEGE CHEMISTRY 3

Studies will start with chemical and physical properties of matter, advance through chemical bonding and chemical relationships in reactions and finally end with electrochemistry. Lab work provides an introduction to classical and instrumental methods of analysis. Students will register into the SMSU academic system and upon successful completion of the assigned course work will receive 9 credits (6 cr. lecture and 3 cr. lab) on an SMSU transcript.

Science Courses Offered Next Year (2013-2014)

AP BIOLOGY A

AP BIOLOGY B

AP BIOLOGY C

3 Trimesters

Prerequisite: An average grade of "A-" or better in Biology. Completion of Chemistry or College Chemistry is required.

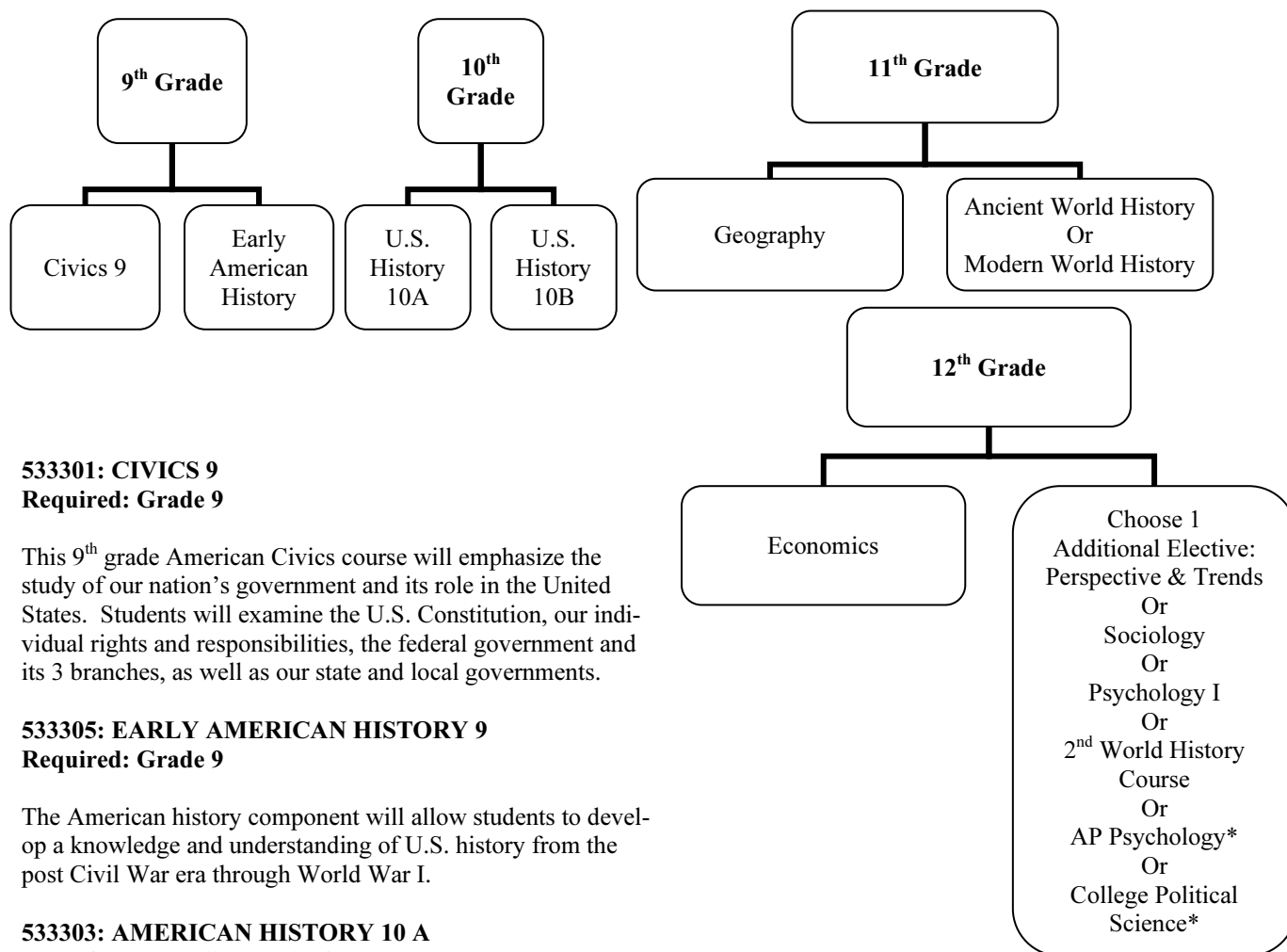
Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Topics include but not limited to cell biology, chemistry of life, genetics, evolution, animals, plants, and ecology. This course differs significantly from the usual high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. A variety of classroom settings will be incorporated including lecture, discussion, lab work, and computer simulations. Lab work will concentrate on the set of 12 labs to be covered in the AP exam. These will include enzyme essay, cell respiration determinations, manipulation and study of bacteria and fruit flies, developmental studies of organisms, and molecular genetics. This course is a preparation for the AP Biology Exam that is given in mid-May.

Students may earn college credit by passing the Advanced Placement Exam in May.

SOCIAL STUDIES



533301: CIVICS 9
Required: Grade 9

This 9th grade American Civics course will emphasize the study of our nation’s government and its role in the United States. Students will examine the U.S. Constitution, our individual rights and responsibilities, the federal government and its 3 branches, as well as our state and local governments.

533305: EARLY AMERICAN HISTORY 9
Required: Grade 9

The American history component will allow students to develop a knowledge and understanding of U.S. history from the post Civil War era through World War I.

533303: AMERICAN HISTORY 10 A
533304: AMERICAN HISTORY 10 B
2 Trimesters
Required: Grade 10

Through this course students will develop a knowledge and understanding of United States history from 1920 to the present. American History A begins with the 1920’s and will conclude with the Cold War. American History B will start with the Civil Rights movement and attempt to get to the 1990’s.

535373: ALTERNATE WORLD HISTORY A
535374: ALTERNATE WORLD HISTORY B
2 Trimesters
Prerequisite: Counselor/teacher recommendation

This course will allow students to develop a knowledge and understanding of United States and World History. It will focus on past events and people that have shaped our country and world, and will examine how these people and events influence the present and future. This course is intended to accommodate students with individual education plans.

WORLD HISTORY
1 Required, 1 Elective: Grades 11 or 12

533327: ANCIENT WORLD HISTORY

This course will cover the time period from the earliest civilizations of Middle East and the far East, Ancient Greece and Ancient Rome. This course will focus on early civilizations by looking at past events and people that have impacted history.

533328: MIDDLE TO MODERN WORLD HISTORY

This course will begin with the Middle Ages, which will focus on the widespread changes in religion, politics and economics throughout Europe. Then the focus turns to new ideas and new Empires during the Renaissance and Reformation, the Age of Exploration, the Scientific Revolution and the Enlightenment. Then the course focus will be on the power of European monarchies and the challenges they faced during the Age of Absolutism. Finally, the course will study the French Revolution.

SOCIAL STUDIES

533330: GEOGRAPHY

Required: Grades 11 or 12

This course will provide students with a complete study of human geography. Students will develop an understanding of location, geographic features, physical and cultural characteristics, world patterns, and current problems in various world regions.

Strongly suggested for 11th grade.

533335: PERSPECTIVES AND TRENDS

Elective: Grades 11 or 12

In this course students will review and analyze important local and international events which have occurred during their lifetime. The past events will be linked to issues of today.

Sources of information will include a variety of mass media.

533329: SOCIOLOGY

Elective: Grades 11 or 12

This course will describe what sociology is and how to apply a sociological perspective to group behaviors in society. Students will see a connection between the social forces around them and their own lives. Students will focus on various sociological phenomena and explain the causes of and attempt to find solutions to social issues. This course requires an aptitude for learning vocabulary and having a higher reading comprehension.

533313: PSYCHOLOGY I

Prerequisite: C+ or better in previous social studies classes.

Elective: Grades 11 or 12

Emphasis will be placed upon the history and methods of psychology, biology and behavior, consciousness, sleep and dreams, learning and memory, and intelligence. Students are strongly encouraged to take both Psychology I and II in order to have a full exposure to introductory psychology.

533314: PSYCHOLOGY II

Prerequisite: Psychology I

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

Emphasis will be placed upon motivation and emotion, theories of personality, psychological tests, stress and health, psychological disorders, and methods of therapy.

535359: COLLEGE PSYCHOLOGY A

535360: COLLEGE PSYCHOLOGY B
2 Trimesters

Prerequisite: B or better in previous social studies classes or instructor pre-approval and Top 33% of junior class or top 50% of senior class.

Elective: Grade 12

This course is weighted for class ranking purposes.

The purpose of College Psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They will also learn about the ethics and methods psychologists use in their science and practice. *Students may earn 3 college credits from St. Cloud State University.*

COLLEGE POLITICAL SCIENCE

1 Trimester

Prerequisite: Top 33% of junior class or top 50% of senior class, successful completion of Civics 9 and a social studies teacher recommendation.

Elective: Grades 11 or 12

This course is weighted for class ranking purposes.

This is a Southwest Minnesota State University (Marshall, MN) survey course in American government and politics which offers a broad study of the nation's formal and informal political institutions, the U.S. Constitution, intergovernmental relations, electoral politics, and various debates about governance and politics in the United States. This is a course for those interested in the advanced study of political science or related fields. It serves as a general studies course and as an important springboard for advanced courses in political science and public administration.

535056: COLLEGE POLITICAL SCIENCE

The first half of the course will begin with the foundations of our republic, the political theory of the 18th century enlightenment, our Constitution: its creation, its body, and all 27 amendments. This will be followed by a thorough examination of the 3 branches of our federal government, the principles of federalism, and the relations between the U.S. Government and our state governments.

The second half of the course will examine the issues of the day as they relate to the roles and positions of our political parties, the political culture in our nation, especially the media, and our elections both historical and current.

WORLD LANGUAGE

532501: SPANISH I A**532502: SPANISH I B****2 Trimesters****Elective: Grades 9, 10, 11 or 12**

Spanish I is an introduction to the Spanish language through the use of the four fundamentals of communication: speaking, listening, reading and writing. Students are introduced to the Hispanic culture within our own country and the Spanish speaking world. We use a multi-media approach to reinforce language skills and cultural awareness. Full length feature films are also interspersed throughout the course to highlight the language and culture.

532503: SPANISH II A**532504: SPANISH II B****2 Trimesters****Prerequisite: C or better in Spanish I or instructor permission.****Elective: Grades 10, 11 or 12**

Spanish II is a continuation and a further development of the skills worked on in Spanish I. The use of multi-media is continued to reinforce the skills of listening, speaking, reading and writing. Students work towards more original thought and authentic expression in Spanish II. Full length feature films are interspersed throughout the course to highlight the language and culture.

World Language Course Offered Next Year (2013-2014)**SPANISH III A****SPANISH III B****2 Trimesters****Prerequisite: C or better in Spanish II or instructor permission.****Elective: Grades 11 or 12***This course is weighted for class ranking purposes.*

Students will continue to develop their skills in listening, speaking, reading, and writing in Spanish. Emphasis will be placed on comprehension and original expression in the language. Active participation is a must in the learning process. More advanced grammatical structures will be introduced. Full length feature films are also interspersed throughout the course to highlight the language and culture.

532509: GERMAN I A**532510: GERMAN I B****2 Trimesters****Elective: Grades 9, 10, 11 or 12**

German I is an introduction to the German language through speaking, listening, reading and writing. Students who successfully complete German I should be able to adequately function in German-speaking societies through a basic knowledge of the language, people and cultures. We use textbooks, workbooks, supplemental handouts, listening and speaking activities, songs, videos, and games to reinforce language skills. Cultural discussions and celebrations are interspersed throughout the course.

534859: GERMAN II A**534860: GERMAN II B****2 Trimesters****Prerequisite: C or better in German I or instructor permission.****Elective: Grades 10, 11 or 12**

German II is a continuation of German I for students who wish to refine and expand their language skills. Students who successfully complete German II should be able to communicate effectively in German through an understanding and usage of familiar expressions and basic phrases. We use textbooks, workbooks, supplemental handouts, listening and speaking activities, songs, videos, and games to reinforce language skills. Cultural discussions and celebrations are interspersed throughout the course.

534882: GERMAN III A**534883: GERMAN III B****2 Trimesters****Prerequisite: C or better in German II or instructor permission.****Elective: Grades 11 or 12***This course is weighted for class ranking purposes.*

Students will continue to develop their skills in listening, speaking, reading and writing in German. Emphasis will be placed on comprehension and original expression in the language. More advanced grammatical structures will be introduced. Films, stories, songs and other materials in German will be used to supplement learning. Cultural discussions and celebrations will play a larger role in this course than in previous German courses.

All world language courses are electives. Please note that for entrance into the Minnesota State College System there is a foreign language requirement of two consecutive years of the same language.

NOTES

NOTES