

Upsala Area Schools

Course Registration Guide



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REQUIREMENTS FOR GRADUATION FROM
UPSALA AREA HIGH SCHOOL

Twenty-four credits are required for graduation.
(Semester credits – 0.5 credits)

Required Courses (16 Credits)

<u>Area</u>	<u>Grade</u>	<u>Credit</u>
I. English/Language Arts (4.0 Credits)		
1. Lang. Arts 9 (2 semesters)	9	1.0
2. Lang. Arts 10 (2 semesters)	10	1.0
3. Lang. Arts 11-12 (2 semesters)	11-12	1.0*
4. Lang. Arts 11-12 (2 semesters)	11-12	1.0*
*Credits in Grades 11-12 may be earned in any sequence.		
II. Mathematics (3.0 Credits)		
1. Algebra II (2 semesters)	9-12	1.0
2. Geometry or Equivalent (2 semesters)	9-12	1.0
3. Required Elective (2 semesters)	9-12	1.0
*Students graduating in 2015 and beyond are required to complete Algebra I in eighth grade and 1.0 credit in Algebra II or an equivalent course.		
III. Science (3.0 Credits)		
1. Physical Science/Chemistry 1 (2 semesters)	9	1.0
2. Biology (2 semesters)	10	1.0
3. Chemistry II/Required Elective (2 semesters)	11-12	1.0
*Students graduating in 2015 and beyond are required to complete 1.0 credit in Chemistry or an equivalent course.		
IV. Social Studies (4.0 Credits)		
1. American Civics/World Geography (2 semesters)	9	1.0
2. American History (2 semesters)	10	1.0
3. World History (2 semesters)	11	1.0
4. Economics/Government (1 semester each)	12	1.0
V. Phys. Ed/Health (1.0 Credit)		
1. Phys. Ed/Health (2 semesters)	9	1.0
VI. Art/Music (1.0 Credit)		
1. Required Elective (2 semesters total)	9-12	1.0

Elective Courses (8.0 Credits)

1. Electives	9-12	8.0
	Total	24.0

**Concurrent enrollment courses may be substituted in place of specific courses listed above provided the same academic standards are fulfilled.

State Assessments

Students must satisfactorily complete State Assessments as outlined in State Legislation.

Upsala Area Schools Credit Inventory
24.0 Credits Required for Graduation (Semester Credit = 0.5)

COURSES	CREDIT	COMPLETED
Language Arts 9 A	0.5	
Language Arts 9 B	0.5	
Language Arts 10 A	0.5	
Language Arts 10 B	0.5	
Language Arts 11-12 A	0.5	
Language Arts 11-12 B	0.5	
Language Arts 11-12 C	0.5	
Language Arts 11-12 D	0.5	
American Civics 9	0.5	
World Geography 9	0.5	
US History 10 A	0.5	
US History 10 B	0.5	
World History 11 A	0.5	
World History 11 B	0.5	
Economics	0.5	
US Government	0.5	
Algebra II A	0.5	
Algebra II B	0.5	
Geometry A or equivalent	0.5	
Geometry B or equivalent	0.5	
Required Elective	0.5	
Required Elective	0.5	
Physical Science 9	0.5	
Chemistry I	0.5	
Biology 10 A	0.5	
Biology 10 B	0.5	
Chemistry II (or equivalent)	0.5	
Required Elective	0.5	
Required Art/Music Elective	0.5	
Required Art/Music Elective	0.5	
Physical Education 9	0.5	
Health 9	0.5	
Total Elective Credits	8.0	
Cumulative Credits Earned to Date		

SEMESTER GRADING AND SEMESTER CREDIT

Students will enroll in courses by semester. Each semester will be divided into quarters. Grades will be determined each quarter based upon student achievement. Upon successful completion of a course, students will receive a semester grade that will be calculated from the quarter grades. Each quarter grade will be equally weighted in this calculation. Students earn credit based on successfully completing the semester and that credit will be permanently recorded at the end of the semester on the following basis:

1. Full year courses meeting one period per day
 - a. 0.5 credit for Semester 1
 - b. 0.5 credit for Semester 2
2. Semester courses meeting one period per day
 - a. 0.5 credit
3. PSEO /CIS courses – credits are accepted as follows:
 - a. 4 PSEO/CIS Credits = 1.0 UAS Credit
 - b. 3 PSEO/CIS Credits = 0.75 UAS Credit
 - c. 2 PSEO/CIS Credits = 0.5 UAS Credit
 - d. 1 PSEO/CIS Credit = 0.25 UAS Credit

CREDITS AND GRADE POINT AVERAGE

Credits are required for graduation. Grades are used to determine GPA and Class Rank. GPA and Honor Roll designation are determined using the following scale:

A	4.00	C +	2.33	D -	0.67
A -	3.67	C	2.00	F	0.00
B +	3.33	C -	1.67	NC	0.00
B	3.00	D +	1.33	P	0.00
B -	2.67	D	1.00	I	0.00

Students earning a GPA of 3.60 or higher will be placed on the A honor roll. Students earning a 3.00 – 3.59 will be placed on the B honor roll. Students must have a least 5 grades that count toward GPA and have no failing grades (F) to be on the honor roll. If you have completed a class that is weighted, add 0.33 for that class. For example, a B+ (3.33) in a weighted class would generate a 3.67 GPA for that class.

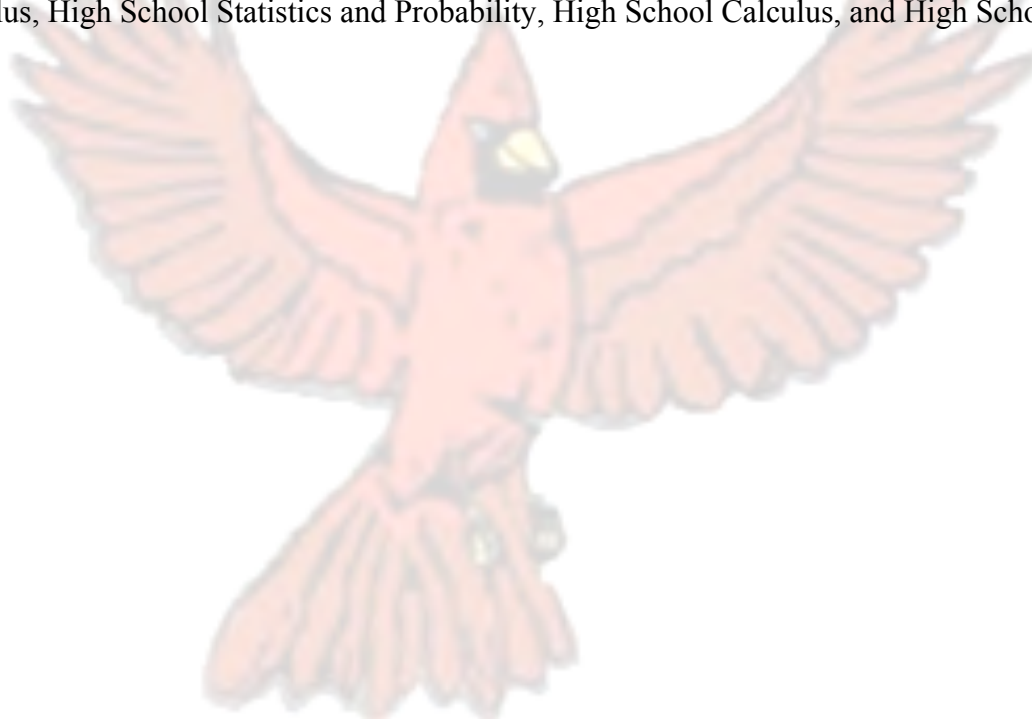
MINNESOTA GRADUATION REQUIREMENTS

Minnesota students are required to complete three kinds of requirements by the time they graduate. Students must:

- Satisfactorily complete the state course credit requirements under Minnesota Statutes, section 120B.024.
- Satisfactorily complete all state academic standards or local academic standards where state standards do not apply.
- Successfully pass statewide graduation assessments as required under Minnesota Statutes, section 120B.30.

WEIGHTED COURSES

The following courses have been designated as rigorous courses and have been approved by the district for weighted grading. Students will receive a weighted GPA after successful completion of the following courses: Advanced Placement Courses, High School Fundamentals of Chemistry, Calculus, High School Physics, High School Pre – Calculus, High School Statistics and Probability, High School Calculus, and High School Trigonometry,



POST – SECONDARY EDUCATIONAL REQUIREMENTS

When students register for their high school classes, it is important to consider the entrance requirements of any post – secondary institution that the student may potentially attend. These requirements vary from one institution to the next and also between the various programs of study within a given institution. The student is ultimately responsible for completing the necessary requirements for enrollment at the institution the student is considering. To determine the requirements at a specific institution, students may schedule a counseling appointment at UAS or contact the specific institution directly.

Students are encouraged to arrange campus visits to those institutions that they may be considering. Admission factors considered by post – secondary institutions may include: class rank, GPA, high school course selection, entrance exam scores (ACT/SAT), participation and leadership in school and community activities, personal essays, and teacher recommendations.

General guidelines for admissions:

Minnesota State Colleges and Universities

2-year State College requirements:

The two-year state community and technical colleges have an open admissions policy. This means:

- Students can enroll if they have a high school diploma or a GED. Even without those, students may be admitted if they demonstrate potential for success in college.
- Students don't have to take a standardized test to be admitted, and high school grades and class rank are not considered.
- After a student is admitted, they will take a placement test. That will tell the student if they need to take remedial or developmental courses, which will not count toward a degree, before they can take college-level courses. Many students need just one developmental course, often in math or English. If a student has taken a "college prep" curriculum in high school, they're more than likely to do well on the test.

4-year State University requirements:

The seven state universities will generally admit a student if they can answer, "yes" to at least one of these questions:

1. Did you graduate in the top half of your high school graduating class?
2. Did you score 21 or higher on the ACT standardized test?
3. Did you receive a combined score of 1,000 or higher on the SAT standardized test?

Some of the state universities may ask students to meet slightly different requirements to be admitted. Students should check with the university admissions office for details. Even if a student does not meet the minimum requirements, they may be considered for admission under special provisions.

Students should apply early in their senior year for the best chance at being admitted. Some universities and programs do not have space available for all applicants. For admission to a state university, it is also recommended that students complete the following course requirements in high school:

- Four years of English, including composition, literature, and speech.
- Four years of math, including two years of algebra, one of which is intermediate or advanced algebra, and one year of geometry.

- Three years of science, including one year each of a biological and physical science, all with significant laboratory experience.
- Three years of social studies, including one year each of geography and U.S. history.
- Two years of a single world language, including non-English native languages and American Sign Language.
- One year of arts (visual arts and the performing arts of theater, music, dance, and media arts)

Minnesota Private College Admission Requirements

The admission requirements for private colleges vary depending upon the institution. Students are strongly encouraged to contact the prospective school for admission information. The general guidelines for the Minnesota State Universities may be followed but these are generally minimum requirements.

Minnesota Private Career School Requirements

Career schools in Minnesota offer programs in business, technology, cosmetology, art, music, nursing, and communications, among other career fields. Students should contact the prospective school for the admission requirements.

Military Service

All military branches require a high school diploma for entrance. Students who are interested in the military are encouraged to visit with a branch recruiter for more information.

CONCURRENT ENROLLMENT OPTIONS

WHAT IS CONCURRENT ENROLLMENT?

Upsala Area High School has partnered with Central Lakes College (CLC) to offer students two different opportunities to earn college credit while attending high school. Students may elect to complete courses aligned with the Minnesota State University and College Transfer Curriculum (MTC) as part of the College in the Schools (CIS)/Post-Secondary Enrollment Options (PSEO) program or an Associate in Arts (AA) Degree. Courses that are designated College in the Schools (CIS) courses are taught by UHS teachers on site, or by teachers in other high schools over the ITV system. Courses that are designated Post – Secondary Enrollment Option (PSEO) courses are taught by college faculty on the ITV system or on-line. Both types of courses may fulfill the requirements necessary to complete the AA degree program. The CIS/PSEO and AA degree programs give students that opportunity to enrich their academic course offerings and earn college credit. Students will experience the academic rigor of a college curriculum and strengthen their academic skills while in high school. Students who choose to participate in the AA degree program may also graduate from UAS with their diploma and an Associate in Arts degree from CLC. Students who wish to participate in these programs must meet the eligibility requirements for enrollment into CLC and the required prerequisites for each course.

Students who choose to enroll in these concurrent enrollment programs should be prepared to work hard, have established study skills and work habits, be prepared to think critically and focus on the subject matter.

ASSOCIATE IN ARTS DEGREE OPPORTUNITY

The AA degree program encompasses 10 Goal Areas and includes a total of 60 college semester credits, which includes the 40 credits of the MTC and 20 elective credits. Students who complete this program while in high school will receive their AA degree upon completion of the program, and would be able to transfer the degree to a four-year college. The AA degree is designed to satisfy the first two years of a four-year liberal arts or professional degree program. Students who are interested in pursuing an AA degree while in high school should consider the following precautions:

1. Students will need to complete an average of 15 college credits per semester beginning with Fall semester of their junior year.
2. Students will leave UHS with a Liberal Arts AA degree, which means that they will likely have to declare a major upon entrance to a four-year institution.
3. Earning an AA degree is NOT for everyone. Careful consideration should be given to choosing this path. Completing the AA degree will require responsibility and dedication.
4. Students intending to pursue a technical or vocational degree after high school may want to consider taking courses that will enhance or improve their degree options without completing the AA degree.
5. Students should opt in by Fall semester of their junior year to pursue the degree, but are NOT required to complete the program. Students may decide to take fewer college credits per semester.
6. 15 semester credits is considered a full-time college student. Students who elect to pursue the AA degree will need to manage their time wisely.
7. Students who complete the program will graduate with their UHS diploma and an AA degree from CLC.

WHO IS ELIGIBLE?

Juniors must rank in the upper one-third of their class, have a cumulative GPA of at least 3.0, and meet the Accuplacer score requirements for course placement.

Seniors must rank in the upper one-half of their class, have a cumulative GPA of at least 2.5, and meet Accuplacer score requirements for course placement.

TECHNICAL SCHOOL PREPARATION

UHS has also partnered with technical schools and colleges to offer courses that will assist in preparing students interested in pursuing careers in technical and vocational fields. Program credits and requirements vary depending on the program. The partnerships that UAS has will allow students to take courses at UAS, which may lead to advanced standing in that particular program when the students enrolls in the technical school or college. Students should consult with the CTE instructor for more information.

HOW TO APPLY:

- Set up a counseling appointment to discuss post – secondary courses that you wish to take and how they fit into the high school requirements for graduation.
- Complete the appropriate paperwork to apply for concurrent enrollment and admission to the post – secondary institution.
- Make an appointment to complete the Accuplacer assessment in Reading, Writing, and Math. The Accuplacer is administered on-site at UHS.

CONCURRENT ENROLLMENT COURSES

There are a number of courses that students may take for both high school credit and college credit. These courses are part of the College in the Schools (CIS) and Post – Secondary Enrollment Options (PSEO) programs. CIS courses are taught by secondary instructors and PSEO courses are taught by post-secondary faculty over the ITV system or are on-line. Students will earn college credits, as well as high school credit, upon successful completion of these courses. Some of the courses that may be offered include:

Fundamentals of Chemistry	Life Science Chemistry
College Physics I and II	Human Biology
General Biology I and II	Introduction to Business
American Economy	American Literature
Oceanography	Composition I and II
Physical Geography	Medical Terminology
Beginning College Algebra	General Psychology
Introduction to Sociology	Interpersonal Communications
American Government and Politics	World Literature
Natural Disasters	Pre-Calculus
Human Development	Social Problems
Introduction to Statistics	World History: Pre-History-1500.
The Art of Digital Photography	World History: 1500 to Present.
Art Appreciation	Introduction to Engineering
Introduction to Manufacturing	Astronomy
College Success Skills	YouTube is a Stage
Art History	Introduction to Accounting
College Algebra	Calculus
Music Appreciation	Weight Training
Recreation Sampler	

ADVANCED STANDING ARTICULATION COURSES

The following high school courses have been approved by Central Lakes College as classes that may take the place of a course in a specific program if the student attends Central Lakes College upon completing high school. The credits may be accepted at other post – secondary institutions as well.

UAS Course Name	CLC Course Title
Agriculture Science	Elective
Landscaping	Elective
Hydroponics	Elective
Aquaponics	Elective
Welding	Intro to Welding
Natural Resources/Wildlife	Intro to Natural Resources
Natural Resources/Wildlife	Special Topics
Ag Leadership & Natural Resources/Wildlife	Special Topics

TRANSFER GRADES AND CREDITS

Letter grades will be given to all students and to all transfer students from any public or private accredited secondary school with licensed teaching staff recognized by the State of Minnesota. All other students will receive a “P” for Pass or a “NP” for No Pass, though credit will be given for classes taken. No letter grades will be entered into the official records for students who transfer in from other institutions not recognized by the conditions stated above. Credits transferred in will be used for graduation, **but will not be allowed as criteria for academic honor awards from Upsala Area High School. Only letter grades will be considered for determining academic honor awards such as Class Rank, Honor Roll, and Honor Students at graduation, or National Honor Society recognition.**

Transfer students must attend two full time semesters in order to receive any academic honors, other than honor roll.

The following stipulations must exist in order to be recognized as an Honor student at graduation:

- 51% or more of the student’s educational program must be from Upsala Area High School.
- PSEO students are eligible for Honors based on the State recommended ratio of 4 college semester credits equal to 1.0 high school credit.
- Exceptions may be allowed by appeal in writing to the administration. The administration’s decision will be final.

WITHDRAWALS AND PREREQUISITES

Withdrawals from Courses

Students may drop a course within the first two weeks of the new semester. Dropping a course after this period will result in a “NC” being entered for the grade and no credit will be awarded.

Prerequisites

A “prerequisite” is a course that must be completed satisfactorily before a student may take certain other courses. Please study the course requirements included with each course description to learn whether or not certain courses have prerequisites.

Minnesota K-12 Academic Standards, Required State Tests and Graduation Requirements 11-1-2010

See [links](#) for more information on selected topics.

SUBJECT	SCHOOL DISTRICT STANDARDS REQUIREMENTS	REQUIRED STATE TESTS FOR 2010-11	STATE GRADUATION REQUIREMENTS FOR STUDENTS
<p>Language Arts</p>	<p>The district must embed the standards into the curriculum so that all students receive instruction in all standards (i.e., the district must provide all standards to all students.) Revised standards will include technology and information literacy skills, college and work readiness skills and the contributions of American Indian tribes and communities as they relate to the standards for each subject.</p> <p>State Standards Grades K, 1, 2, 3, 4, 5, 6, 7, 8, 9-10, 11-12</p> <p>Revision years: 2009-2010, 2018-2019 Implement revised standards: 2012-13</p>	<p>FOR NCLB: Reading test in Grades 3-8 and 10 (MCA, MCA-Modified or MTAS); Mathematics test in Grades 3-8 and 11 (MCA, MCA-Modified or MTAS); Science test in Grades 5, 8 and high school (MCA or MTAS). For graduation: Reading MCA, MCA-Modified or MTAS in Grade 10 (Reading GRAD retests); Mathematics MCA, MCA-Modified or MTAS in Grade 11 (Mathematics GRAD retests); Written Composition GRAD or Minnesota Alternate Assessment: Writing in Grade 9 (Written Composition GRAD retests). Some English learners are exempt from requirement to pass graduation tests.</p> <p>NCLB</p> <ul style="list-style-type: none"> • Reading MCA - Grades 3-8 and 10 <i>GRAD - is embedded in the Reading MCA (Grade 10)</i> OR • Reading MCA-Modified – Grades 5-8 and 10 for eligible students with IEPs OR • Reading Minnesota Test of Academic Skills (MTAS) – Grades 3-8 and 10 for eligible students with IEPs <p>GRADUATION</p> <ul style="list-style-type: none"> • Reading MCA or embedded GRAD – Grade 10; or Reading MCA-Modified – Grade 10; or Reading MTAS – Grade 10; or Reading GRAD retest – Grades 11-12 • Written Composition GRAD - Grade 9; Retests - Grades 10-12; or teacher completes Minnesota Alternate Assessment: Writing 	<p>STATE GRADUATION REQUIREMENTS FOR STUDENTS 21.5 course credits¹</p> <p>Total includes 7 elective credits. Students must also meet local requirements. Note the change in graduation credit requirements that begin with the Class of 2015. See Credit Requirements tables.</p> <ul style="list-style-type: none"> • 4 credits • Meet Assessment Requirement <ul style="list-style-type: none"> ◦ Writing: Pass Written Composition GRAD (Grade 9) or Written Composition GRAD retest (Grades 10-12); or IEP or 504 Team sets an individual passing score; or teacher completes Minnesota Alternate Assessment: Writing ◦ Reading: Proficient on Reading MCA or pass GRAD (Grade 10); Proficient on Reading MCA-Modified or Reading MTAS (Grade 10); or Pass Reading GRAD retest (Grades 11-12); or IEP or 504 Team sets individual passing score
<p>Math</p>	<p>State Standards Grades K-2, 3, 4, 5, 6, 7, 8, 9-11</p> <p>Revision years: 2006-2007, 2015-2016 Implement revised standards: 2010-2011</p>	<p>NCLB</p> <ul style="list-style-type: none"> • Mathematics MCA - Grades 3-8 and 11 <i>GRAD is embedded in Mathematics MCA (Grade 11)</i> OR • Mathematics MCA-Modified – Grades 5-8 and 11; for eligible students with IEPs OR • Reading Minnesota Test of Academic Skills (MTAS) – Grades 3-8 and 10 for eligible students with IEPs <p>GRADUATION</p> <ul style="list-style-type: none"> • Mathematics MCA or embedded GRAD – Grade 11; or Mathematics MCA-Modified – Grade 11; or Mathematics MTAS – Grade 11; or Mathematics GRAD retest 	<ul style="list-style-type: none"> • 3 credits², encompassing the algebra, geometry, and statistics and probability content sufficient to satisfy the academic standards • Meet Assessment Requirement <ul style="list-style-type: none"> ◦ Proficient on Mathematics MCA or Pass Mathematics GRAD (Grade 11); Proficient on Mathematics MCA-Modified or Mathematics MTAS (Grade 11); or Pass Mathematics GRAD retest (Grade 12); or ◦ Alternate mathematics pathway (participate in district required remediation and three unsuccessful attempts to pass); or ◦ IEP or 504 Team sets individual passing score <p>Students in the Class of 2015 must complete an Algebra I credit by the end of 8th grade, and must also complete an Algebra II credit or its equivalent, in addition to the requirements above.</p>

SUBJECT	SCHOOL DISTRICT STANDARDS REQUIREMENTS ¹	REQUIRED STATE TESTS FOR 2010-11 and implementation dates for new tests	STATE GRADUATION REQUIREMENTS FOR STUDENTS 21.5 course credits
Arts	<p>Local or State Standards² Grades K-3, 4-5, 6-8, 9-12 (state standards) Revision years: 2007-2008, 2016-2017 Implement revised standards: 2010-11</p> <p>State Standards Districts may choose either option: a) Grades K, 1, 2, 3, 4, 5, 6, 7, 8, 9-12; or b) Grades K-2, 3-5, 6-8, 9-12 (option b will not be available beginning in 2011-2012)</p> <p>Revision dates: 2008-2009, 2017-2018 Implement revised standards: 2011-12</p>	<p>No state required tests Locally selected assessments</p>	<ul style="list-style-type: none"> 1 credit²
Science	<p>Local Standards- Health Since 2003, local districts are required to develop their own health education standards. In grades K-8 health instruction must be given each year or by district-determined grade bands. In grades 9-12 health instruction must be provided to all students at least once. Districts determine periodic standards revision cycle.</p> <p>State Standards - Physical Education In grades K-8 physical education instruction must be given to all students each year. In grades 9-12 physical education instruction must be provided to all students at least once. As of May 26, 2010, the Minnesota State Legislature directed the Minnesota Department of Education (MDE) to adopt the National Standards for Physical Education developed by the National Association for Sports and Physical Education.</p>	<p>NCLB</p> <ul style="list-style-type: none"> Science MCA - Grades 5, 8 and high school <i>High school test given in year students complete a life science course.</i> <p>OR</p> <ul style="list-style-type: none"> Science Minnesota Test of Academic Skills (MTAS) - Grades 5, 8 and high school for eligible students with IEPs 	<ul style="list-style-type: none"> 3 credits², including one in biology Note: An agriculture science or Catabolic and Technical Education (CTE) course may fulfill a general science credit requirement. <p>Students in the Class of 2015 must earn a biology credit and a chemistry or physics credit as part of the 3-credit requirement.</p>
Social Studies	<p>State Standards Grades K-3, 4-8, 9-12 Revision dates: 2010-2011, 2019-2020 Implement revised standards: 2013-14</p>	<p>No state required tests Locally selected assessments</p>	<ul style="list-style-type: none"> 3.5 credits, encompassing U.S. history, geography, world history, economics, and government/citizenship - or - 3 credits encompassing U.S. history, geography, world history, government/citizenship and a .5 credit in economics (taught in social studies, business, or agriculture education department)
Health/Physical Education	<p>Local Standards- Health Since 2003, local districts are required to develop their own health education standards. In grades K-8 health instruction must be given each year or by district-determined grade bands. In grades 9-12 health instruction must be provided to all students at least once. Districts determine periodic standards revision cycle.</p> <p>State Standards - Physical Education In grades K-8 physical education instruction must be given to all students each year. In grades 9-12 physical education instruction must be provided to all students at least once. As of May 26, 2010, the Minnesota State Legislature directed the Minnesota Department of Education (MDE) to adopt the National Standards for Physical Education developed by the National Association for Sports and Physical Education.</p>	<p>No state required tests Locally selected assessments</p>	<p>Local decision</p>

SUBJECT	SCHOOL DISTRICT STANDARDS REQUIREMENTS ¹	REQUIRED STATE TESTS FOR 2010-11 and implementation dates for new tests	STATE GRADUATION REQUIREMENTS FOR STUDENTS 21.5 course credits
<u>Career & Technical Education</u>	Local Standards Districts must offer courses in this elective subject area. Districts determine periodic standards revision cycle.	No state required tests Locally selected assessments	Local decision ²
<u>World Languages</u>	Local Standards Districts must offer courses in this elective subject area. Districts determine periodic standards revision cycle.	No state required tests Locally selected assessments	Local decision
<u>English Language Proficiency (ELP)</u> ⁴	State Standards Grades K-2, 3-5, 6-8, 9-12 (Adopted per NCLB)	NCLB <ul style="list-style-type: none"> • Test of Emerging Academic English (TEAE), a reading/writing proficiency test - Grades 3-12 • K-2 Reading and Writing Checklist • MN Student Oral Language Observation Matrix (MN SOLOM), a listening and speaking language proficiency test - Grades K-12 	LEP students are subject to the same graduation credit requirements as all students.

¹ A course credit is equivalent to a student successfully completing an academic year of study or mastering the subject matter, as determined by the local school district.

² A CTE course may fulfill a general science, math or arts credit requirement.

³ ARTS: Districts must offer 3 and require 1 in the areas of dance, music, theater, visual arts and/or media arts in 9-12. (In grades K-8, districts must offer 3 and require 2 in dance, music, theater and/or visual arts.)

⁴ Federally required if districts receive Title III dollars.

COURSE LISTING BY DEPARTMENT

Some courses may be offered on a rotating basis every other year.

English/Language Arts

Language Arts 9 A & B
Language Arts 10 A & B
Language Arts 11/12 A, B, C, & D
Credit Recovery Reading

Mathematics

Algebra II A&B
Transition Algebra A & B
Geometry A & B
PreCalculus A & B
Calculus A & B
Trigonometry
Test Prep Math I A & B
Test Prep Math II A & B
Introduction to Statistics
Career Math A & B

Music

Senior Band A & B
Senior Choir A & B

Career and Technical

Office Skills and Career Exploration
Machining and Drafting
Basic Accounting/Money Management
Digital Photography
Desktop Publishing
Drafting and CAD
Research and Development
Engineering I and II
Digital Audio
Transportation and Energy
Tech Ex!

Physical Education and Health

Physical Education 9
Health 9
Life Sports
Team Sports
Life Fitness

World Language

Spanish I A & B
Spanish II A & B
Spanish III A & B

Social Studies

American Civics
World Geography
American History
World History
Economics
Government

Science

Physical Science 9 A & B
Biology 10 A & B
Anatomy and Physiology A & B
Biomedical Ethics
Environmental Science
Microbiology
Chemistry
Physics
Forensic Science
Neuroscience

Visual Arts/Art in the Home

2D Visual Art
3D Visual Art
Food and Hospitality
Creative Fabric and Home Decor
Yearbook/Design
Creative Crafting

Agriculture and Vocational Ed

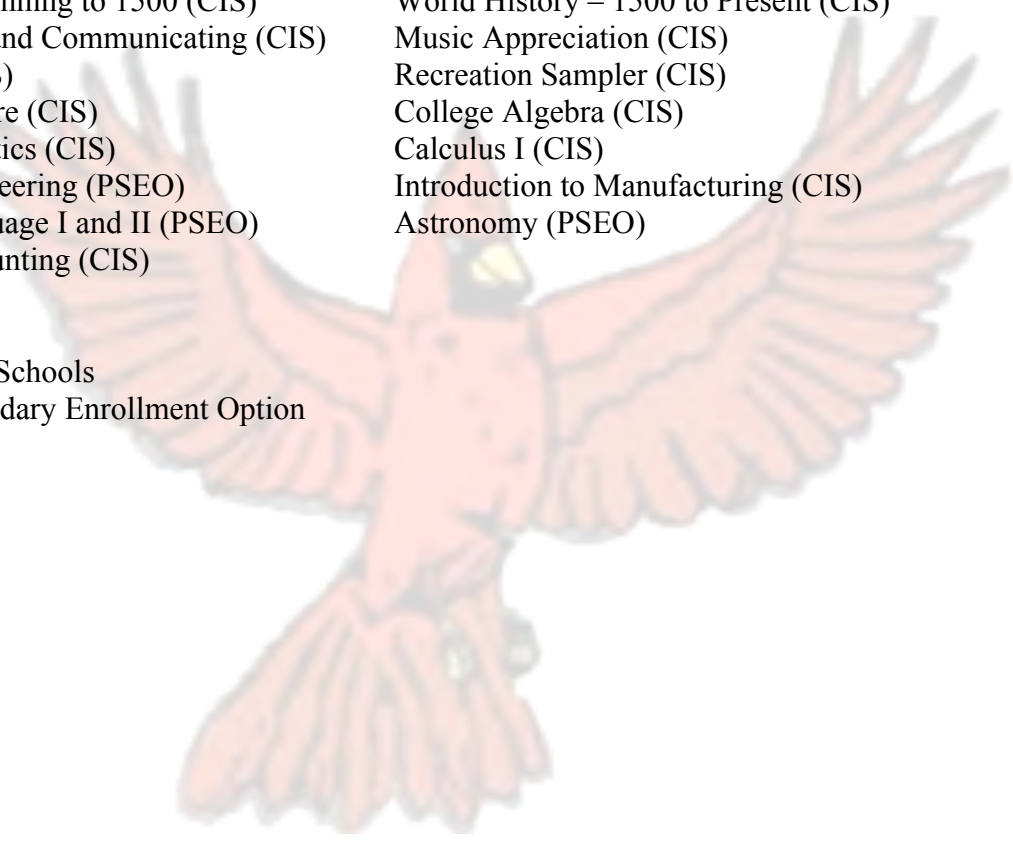
Ag Carpentry and Woodworking 1,II, and III
Ag Food Science
Agriculture Science
Equine Science
Landscaping
Natural Resources and Wildlife Management
Plant Science
Welding I, II and III
Veterinary Technology I and II
Floriculture
Small Animal Science
Small Gasoline Engines I
Aquaponics
Agribusiness Management
Ag Leadership
Hydroponics

COLLEGE IN THE SCHOOLS/POST – SECONDARY COURSES

College Physics I and II (CIS)	General Biology 1 and II (CIS)
Introduction to Business (CIS)	American Economy (PSEO)
American Literature (PSEO)	Oceanography (PSEO)
Composition I and II (PSEO)	Physical Geography (PSEO)
Medical Terminology (PSEO)	Beginning College Algebra (CIS)
General Psychology (CIS)	Sociology (CIS)
Interpersonal Communications (PSEO)	American Gov't/Politics (PSEO)
World Literature (PSEO)	Natural Disasters (PSEO)
Pre-Calculus (CIS)	Human Development (CIS)
Social Problems (CIS)	Introduction to Statistics (CIS)
World History – Beginning to 1500 (CIS)	World History – 1500 to Present (CIS)
Thinking, Learning, and Communicating (CIS)	Music Appreciation (CIS)
Weight Training (CIS)	Recreation Sampler (CIS)
Introduction to Theatre (CIS)	College Algebra (CIS)
Introduction to Statistics (CIS)	Calculus I (CIS)
Introduction to Engineering (PSEO)	Introduction to Manufacturing (CIS)
American Sign Language I and II (PSEO)	Astronomy (PSEO)
Introduction to Accounting (CIS)	

CIS = College in the Schools

PSEO = Post – Secondary Enrollment Option



Upsala Area Schools

Course Descriptions by Department



ENGLISH/LANGUAGE ARTS

LANGUAGE ARTS 9 A AND B:

Required for all 9th grade students:

One – Year Course 2 – Semester Credits

This course is intended to develop vocabulary and grammar as well as reading, writing, and speaking skills. Literary focus is on the elements of short stories and excerpts from biographies and autobiographies. Writing focus is on the 5-paragraph essay, in preparation for the GRAD Writing test.

LANGUAGE ARTS 10 A AND B:

Required for all 10th grade students:

One – Year Course 2 – Semester Credits

This course is intended to develop vocabulary and grammar as well as reading, writing, and speaking skills. Literary focus is on the elements of the novel and preparation for the MCA-II Reading test. Writing focus is on journaling as well as research-based writing.

ENGLISH 11/12 A:

Required for all 11th/12th grade students:

1 semester course

This course is intended to develop vocabulary and grammar as well as reading, writing, and speaking skills. Literary focus is on modern classics. Writing focus is researched-based compositions.

ENGLISH 11/12 B:

Required for all 11th/12th grade students:

1 semester course

This course is intended to develop vocabulary and grammar as well as reading, writing, and speaking skills. Literary focus is on non-fiction and current affairs. Writing focus is memoir/autobiography.

ENGLISH 11/12 C:

Required for all 11th/12th grade students:

1 semester course

This course is intended to develop vocabulary and grammar as well as reading, writing, and speaking skills. Literary focus is on American literature. Writing focus is researched-based compositions.

ENGLISH 11/12 D:

Required for all 11th/12th grade students:

1 semester course

This course is intended to develop vocabulary and grammar as well as reading, writing, and speaking skills. Literary focus is on contemporary literature. Writing focus is creative compositions and business writing.

SOCIAL STUDIES

ECONOMICS

Required for Seniors

1 semester

Students will develop an understanding of basic economic principles including: Supply and demand, types of businesses, the business cycle, money and banking (monetary price theory), how economics is the basis for poverty, pollution, discrimination, unemployment, social security, and other social issues and problems. Students will understand how the United States economy works and functions. Students will understand a citizen's place in our economy and develop an understanding of the world economy.

GOVERNMENT

Required for Seniors

1 semester

Students will identify the major national problems that led to the Constitutional Convention, the 3 branches of government and purpose of each, the roles of state and federal government, to identify the steps in a bill to become a law, and the powers of the state government.

WORLD HISTORY

Required for Juniors

One-Year Course 2 - Semester Credits: Semester 1 is a **required prerequisite** for Semester 2 (or with teacher/administrative approval)

The World History course studies the development of civilizations from Prehistoric through present times. Units make use of historical chronology, photographs, video presentation, and maps to highlight and connect the major historical events and their locations as well as the important people that have impacted world history. Students will explore such topics as:

Migration patterns; development, characteristics, and decline of civilizations in Africa, Asia, the Middle East, Europe, and the Americas; emergence, development, and impact of religions and philosophies; the exchange of scientific, artistic, and historical knowledge between civilizations and peoples; social, political, and economic causes & effects of important historical events; politics, law, & government; and war & diplomacy. Numerous activities, exercises, and projects throughout the text and associated materials, as well as various supplemental written, video, internet, and primary source materials allow for students to compare/contrast, analyze, infer, generalize, and make real-world connections about the various cultures they study and their impact on the world today. Students will develop skills essential to life today that include map skills, social science skills, and higher order thinking skills, as well as reading, writing, technological, and performance skills.

AMERICAN HISTORY Required for Sophomores

One-Year Course 2 - Semester Credits: Semester 1 is a **required prerequisite** for Semester 2 (or with teacher/administrative approval)

The American History course studies the historical development of American ideas and institutions from the earliest North American societies through present-day. Students will learn fundamental concepts in civics, economics, and geography and will explore topics in such historical

themes as: America in world affairs; diversity & the national identity; economic opportunity & growth; immigration, migration, & expansion; science & technology; states' rights, voting rights, civil rights, & the implications of specific Amendments; women & political power; cultural, political, & social reforms; federal policies; and the role of the United States as a world leader. Numerous activities, exercises, and projects throughout the text and associated materials, as well as various supplemental written, video, internet, and primary source materials allow for students to compare/contrast, analyze, infer, generalize, and make real-world connections about America's development and role in our ever-changing world. Students will develop skills essential to life today that include map skills, social science skills, and higher order thinking skills, as well as reading, writing, technological, and performance skills.

WORLD GEOGRAPHY Required for Freshmen

One-Half Year Course 1 - Semester Credit

The World Geography course studies the world's peoples, places, and environments, focusing on world regions. Particular emphasis is placed on students' understanding and application of geographic concepts and skills to their daily lives. Students will learn about geospatial skills, places & regions, human systems, and human environment interaction. Students will investigate: using geographic representations and geospatial technologies to make and justify geographic decisions; how to analyze and solve local and regional problems; how to make inferences and conclusions about physical and human characteristics of places; patterns of production and consumption, human population and migration, and the development of cities; cultural diffusion; and how the environment and human activities are interconnected. Students will learn and use geography skills in numerous activities, exercises, and projects throughout the text and associated materials, as well as various supplemental written, video, internet, and primary source materials to allow them to compare/contrast, analyze, infer, generalize, and make real-world connections about the various regions and peoples they study as well as how each is impacted by the other in today's world. Students will develop skills essential to life today that include map skills, social science skills, and higher order thinking skills, as well as reading, writing, technological, and performance skills.

AMERICAN CIVICS

One-Half Year Course

Required for Freshmen

1 - Semester Credit

The American Civics course is a study of citizenship and government. It provides students with a fundamental understanding of civic life, the foundation & development of government and politics, those rights guaranteed to citizens, and an examination of the duties & responsibilities Americans must exercise to maintain their republic. Students will investigate: civics skills; civic values & principles of democracy; rights and responsibilities; government institutions and political processes; and relationships of the US to other nations and organizations. Students will gain the factual knowledge and analytical skills necessary to understand the *US Constitution* and the form of government for which it

provides. The ultimate goal of the course is to teach students how to become informed and active participants in their government. In all possible instances, students will learn to make connections between the American government and political system to their everyday lives in their school & community. Students will develop skills essential to life today including social science and higher order thinking skills, as well as reading, writing, technological, and performance skills.

MATHEMATICS

ALGEBRA II A & B

Required mathematics class for students who have completed Algebra 1 or Transition Algebra (1/2 credit earned per semester)

Semester 1: Topics include but are not limited to brief review of Algebra 1, Inequalities and Proof, Linear Equations and Functions, and Products and Factors of Polynomials

Semester 2: Topics covered include but are not limited to Rational Expressions, Irrational and Complex Numbers, Quadratic Equations and Functions, Analytic Geometry and Statistics and Probability

TRANSITION ALGEBRA A&B

Required mathematics class for students who have not passed Algebra 1 or who have not mastered Algebra 1 concepts (1/2 credit earned per semester)

Semester 1: Topics include but are not limited to Solving Equations and Problems, Polynomials, Factoring Polynomials and Working with Fractions. Topics will be based on students' needs.

Semester 2: Topics include but are not limited to Applying Fractions, Functions, Systems of Linear Equations, Inequalities and Rational and Irrational Numbers. Topic will be based on students' needs

GEOMETRY A&B

(Prerequisite Algebra I Intended for 9th – 12th grade)

1st Semester: Topics Covered: Deductive and Inductive Reasoning (Proofs), Points, Lines and Angles, Parallel Lines and Planes, Congruent Figures, Quadrilaterals, Similar Polygons.

2nd Semester: Right Triangles, Trig Ratios, Circles including Tangents, Arc, and Chords, Inscribed Angles, Areas of Plane Figures, Area and Volume of Solids, Coordinate Geometry, Transformations. Students must successfully complete semester 1 to take semester 2.

PRECALCULUS A&B

Elective math class for students who have completed Algebra 2 and Geometry. (1/2 credit earned per semester) Weighted Course

Semester 1: Topics covered included, but are not limited to Irrational and Complex numbers, Quadratic Equation and Functions, Variation and Polynomial Equations, and Exponential and Logarithmic Numbers

Semester 2: Topics covered include but are not limited to Sequence and Series, Triangle Trigonometry, Trigonometric Graphs and Identities, Trigonometric

Applications, Statistics and Probability and Brief Calculus Overview. A review of all standards will be given for a few weeks before the MCA test for 11th grade students.

CALCULUS A&B

Elective mathematics class for students who have successfully completed PreCalculus (1/2 credit earned per semester) Weighted Course

Semester 1: Topics covered include but are not limited to Review of PreCalculus, Limits and Continuity, Derivative and Applications of Derivatives.

Semester 2: Topics covered include but are not limited to Definite Integrals, Differential Equations and Mathematical Modeling, Applications of Integrals, Sequence and Series and L'Hopital's Rule.

INTRODUCTION TO STATISTICS

Elective mathematics class for students who have successfully completed PreCalculus (1/2 credit earned) Weighted Course

Semester 1: Topic include but are not limited to Basic Probability, Sampling and Simulation, Sample Statistics, Expected Value, Variance and Standard Deviation, Normal Distribution, Correlation, Mutually Exclusive and Independent Events and the Fundamental Counting Principle.

TRIGONOMETRY

Elective mathematic class for students who have successfully completed PreCalculus (1/2 credit earned) Weighted Course

Semester 1: Topics include but are not limited to Angles (Degree and Radian) Measures, Solving Right Triangles, The Law of Sines and Cosines, Areas of Triangles, Circular functions Periodicity and Symmetry, Fundamental Identities, Addition, Double Angle and Half Angle Formulas, and Trigonometric Applications.

TEST PREP MATH I AND II, A&B

(Intended for Juniors and Seniors but Sophomores may take with approval from teacher and/or principal.) This class is for students who need or want a math class that will help prepare them for the MCA's .

1st Semester Topics covered are based on the students' needs topics that may be covered, but are not limited to Functions, Polynomials, Rules of Exponents, Radicals, and Inequalities.

2nd Semester Topics covered are based on the students needs. Topics that may be covered, but are not limited to are: Finding Area and Volume of plane and solid geometric figures, Use properties of figures to solve real world problems. Analyze data and measurers of center, Use data to predict, Theoretical Probability, Apply Probability to real world problems. Students do not need to complete Semester I in order to register for Semester II.

CAREER MATH A&B

Intended for Juniors and Seniors, but Sophomores may take with principal and teacher's approval.

1st Semester: Topics covered are: Home Loans, Credit Card Loans, and Consumer Loans, Students then explore the math involved in different Careers which may include, but are not limited to Health Occupations, Electronic Technicians and Carpentry. Algebra, Geometry, Numbers and Operations Standards are covered in this class.

2nd Semester: Students continue to explore the math involved in different Careers. Algebra, Geometry, Numbers and Operations, Stats and Probability are standards covered in the second semester. Students do not have to complete Semester one to take semester two.

SCIENCE

PHYSICAL SCIENCE 9/CHEMISTRY I

1 year, 2 Semester credits. Required for all 9th graders

Objectives: To develop an understanding of the methods and nature of science. To develop an appreciation of the metric system and measurement. To introduce general concepts of the chemical nature of matter. To introduce the relationships between matter and energy. To instill an appreciation for science in everyday living the relationship between matter and energy. To provide laboratory experiences to enhance the nature of the scientific method. To develop an interest and an awareness in the field of science. To develop independent thinking through problem solving.

BIOLOGY 10 A&B

1 year, 2 semester credits. Required for all 10th graders

Objectives: after completion of this course, the student will: demonstrate an understanding of basic scientific processes necessary to study biology. Examine the basic principles of biochemistry, heredity, evolution, and ecology. Explore how the basic principles of biology apply to various living organisms. Examine how the basic principles of biology apply to the human species. Analyze the relationships that exist between science, technology and society. Examine ethical issues related to biological studies. Explore various career opportunities within the biological sciences.

ANATOMY AND PHYSIOLOGY A&B

1 year, 2 semester credits. Elective course for Juniors and Seniors

Prerequisite: Biology 10

Objectives: Students will have an understanding of: How the progression of structural levels (atoms, molecules, compounds, cells, tissues, organs, and systems) contributes to the body's order and stability. The precise and logical descriptive word roots, prefixes, & suffixes used to identify body parts and directional terms. The structure, function and reproduction of cells. The essentials of body chemistry. How all parts of the human body contribute to the maintenance of homeostasis. How the integumentary system, skeletal system and muscular system each function in protection, support and movement. How the cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system and immune system each function in the distribution of materials

and contribute to the maintenance of homeostasis. How the nervous system (central, peripheral & autonomic), organs of sensation and endocrine system each contribute to the regulatory control, integrative communication and systemic coordination within the human body. How the reproductive system, genetics, and aging process each contribute to the reproduction, growth and development of a human body. Basic Health Concepts regarding: drugs & alcohol, HIV infection and other transmittable diseases.

BIOMEDICAL ETHICS

1 semester, ½ credit. Elective course for Juniors and Seniors.

Objectives: Upon completion of this course participants will be expected to:

Be familiar with the major theories of normative ethics, their strengths and their weaknesses. Be able to analyze some specific biomedical issues and evaluate the different arguments advanced for or against paternalism, euthanasia, genetic engineering, etc. Be aware of the limitation of ethical theories and come to a better understanding of what ethical theory can offer to those grappling with practical moral problems. Complete research and conduct a debate on a biomedical issue.

ENVIRONMENTAL SCIENCE

1 semester, ½ credit. Elective science course for juniors and seniors

Objectives: After completion of this course, the student will: Understand factors which precipitate changes in the environment: a. human intervention b. natural phenomena. Understand the scientific principles, laws, or theories related to specific environmental changes. Understand short and long term impacts of changes in the environment. Understand implications of changes in the environment at local, regional, and/or global levels. Examine environmental issues through case study, service learning opportunity and/or field study. a. identify relevant scientific principles, theories, or laws. b. identify relevant social and economic issues. c. determine and analyze the costs and benefits of various solutions. d. determine the impact of potential solutions on environmental quality. e. use evidence to justify a recommended course of action.

FORENSIC SCIENCE

1 semester ½ credit. Elective science course for juniors and seniors

Objectives: Students will learn how deductive reasoning can help with the solving of a crime. Students will learn how science can contribute to the solving of a crime. Students will learn how teams of experts work together to solve a crime.

CHEMISTRY II

1 semester credit, required course for students graduating in 2015 and beyond.

Objectives: Students will continue their studies of the chemical principles and concepts introduced in Chemistry I. Students will apply the chemical concepts to laboratory and real-world situations.

MICROBIOLOGY

1 semester, ½ credit. Elective course for juniors and seniors

Prerequisite: Biology 10

Objectives: This class will be an overview of bacteria and fungi and the laboratory procedures that accompany the study. Students will be able to: demonstrate an understanding of core concepts of microbiology, including the evolution and diversity of microbes; cell structure and function; metabolism; information flow and the role of microbes in ecosystems; apply the basic principles of chemistry and quantitative reasoning to solve problems in microbiology; demonstrate an understanding of hypothesis testing and experimental design; and display proficiency in basic microbiological skills.

CHEMISTRY

1 year, 2 semester credits. Offered on an alternate year basis. Elective course for Juniors and Seniors.

Prerequisite: completion of Algebra

Objectives: Students will be able to: Identify the structure and properties of different types of matter. Understand periodic law and periodicity, bonding theories, chemical reactions and relationships and stoichiometry. Understand states of matter, solutions, thermochemistry, reactions and equilibria, acids and bases, redox reactions with an emphasis on organic and biochemistry. Students completing this course will have the opportunity to receive concurrent college credit through CLC.

PHYSICS

1 year, 2 semester credits. Offered on an alternate year basis. Elective course for juniors and seniors

Prerequisite: Algebra I (other higher math courses would be helpful)

Objectives: To introduce and develop concepts and principles involving the relationship between matter and energy. To provide laboratory experiences to enhance the nature of the scientific method. To develop an interest and an awareness in the field of science. To develop independent thinking through problem solving. Students completing this course will have the opportunity to receive concurrent college credit through CLC.

MUSIC

SENIOR BAND

1 year - 1 credit. Please note that this is not an extracurricular activity.

Students will be graded on their work. Grades 9-12

Intended for students in grades 9-12 having an interest in music and who can play their instruments with some proficiency. The student must be willing to attend evening activities as scheduled. Students should plan on being in band for the entire school year rather than on a semester basis; rare exceptions are made for scheduling conflicts.

Objectives: To improve and refine the student's proficiency on a musical instrument. To expose the student to a variety of musical styles at a higher intellectual and technical level than in Jr. Band. To increase the student's musical vocabulary and understanding of music theory. To teach the student marching fundamentals. To encourage each student to work well in a

group toward a single goal. Uniforms: Black dress pants/skirts and white shirts will be worn for performances.

SENIOR CHOIR

1 year, 1 credit. Please note that this is not an extracurricular activity. Students will be graded on their work. Grades 9-12

Intended for students in grades 9-12 interested in music and in developing their singing voice. The student must be willing to attend evening activities as scheduled. Students should commit themselves on a yearly basis but may, with prior approval from the teacher; sign up for less than the full year. Students must have prior approval from the teacher if they will not be in class for an entire school year.

Objectives: To learn efficient methods of vocal production and breath support. To learn to express oneself through music. To guide each student to become a confident singer and performer. To expose each student to various styles of music. To encourage each student to work well in a group toward a single goal. To learn music theory and sight singing.

VISUAL ARTS/ART IN THE HOME

2/D VISUAL ART: DRAWING, DESIGN, PAINTING

9-12 Elective Course, 1 semester – ½ credit

This studio course will include a spectrum of two-dimensional media as a means for expressing art styles and subject matter. Drawing in a variety of media will provide the foundation for applying the elements of art and design in composition. Painting and printing media will incorporate the skills developed from drawing experience and digital resources. Art history and styles will parallel selected media encouraging individual expression, artist statements, and presentation and/or public display of artworks. Critical analysis of well-known works and student works will be incorporated during the semester.

3/D VISUAL ART: CERAMICS, SCULPTURE, AND MULTI-MEDIA

9-12 Elective Course, 1 semester – ½ credit

This studio course, primarily using ceramic processes, will include various hand-building methods of clay construction, the potter's wheel, glazing, and firing methods. Both utilitarian and aesthetic ceramic forms will be incorporated. In addition, three-dimensional sculpture assignments using clay and other available media will emphasize the elements of art and design. Extending beyond the traditional forms of sculpture, conceptual, environmental, and installation styles will be covered.

FOODS AND HOSPITALITY

9-12 Elective Course, 1 semester – ½ credit

A wide variety of food items will be planned, prepared, served, and evaluated. Students will develop knowledge of kitchen equipment and appliances and their appropriate use and care. Topics on food will include yield, costs, advance preparation, storage, meal etiquette, and presentation. Safety and sanitation procedures, nutrition aspects, and current food-related information will be emphasized. A comprehensive unit on hosting a thematic dinner will include design of invitation, menu, décor, and buffet setup.

CREATIVE FABRIC AND HOME DÉCOR

9-12 Elective Course, 1 semester – ½ credit

This course applies the skills of use and care of sewing equipment as a basis for constructing a student selected fabric project. Introductory unit will focus on sewing machine basics and practice. Basics of fibers/fabrics, hand sewing, repair and care of clothing or fabric item will be included. In addition, a unit on interior design aspects will be expressed in a drawing format. Also, students will design fabric in batik and/or dyeing methods to create a home décor product.

CREATIVE CRAFTING – 1 Semester Credit – 9-12th Grade

Students will use skills and materials to complete various crafting projects. Projects will involve multiple materials and techniques. This course will focus on many of the hobby crafts that are popular in society today. Project completion will also involve current technology and social media applications.

YEARBOOK/DESIGN – 2 Semesters – 1 Credit – 9-12th Grade – (Renewable)

(Application required – See Mrs. Poissant)

Become a part of History, as you help develop and create the next year's yearbook. Become involved in recording history through stories and photographs. Develop your business and money management skills through advertising and sales, also develop and create that design muscle through creating a unique and amazing book.

TECHNOLOGY EDUCATION

OFFICE SKILLS AND CAREER EXPLORATION – 1 Semesters – ½ Credit – 10-12th Grade

Interested in College? Looking to be involved in the business world? Want to have better typing and computer skills? Office Skills will explore career potentials for students, develop and understand awareness of various options and paths they can take to their future. We will also explore using Word Processors, Spreadsheets such as Excel, and Presentations such as Power Point.

PROFESSIONAL TRAINING AND DEVELOPMENT – 1 Semester – ½ Credit – 10-12th Grade

(Office Skills pre-requirement)

Looking to become an Office Manager? Maybe even a CEO or Executive of a major business? Looking for a Job? This class will develop skills such as: resume building, job hunting, the job application process, interviewing, follow-ups, presentation perfection, time management, and advanced presentation development.

BASIC ACCOUNTING/MONEY MANAGEMENT – 1 Semester – ½ Credit – 9-12th Grade

Students will learn to create, balance and maintain money accounts including Checking, Savings, and Credit Cards. Students will also learn basic accounting utilizing spreadsheets in both paper and digital format.

ADVANCED MONEY/BUSINESS – 1 semester – ½ credit – 9-12th Grade

(Basic accounting pre-requirement)

Immerse yourself into the business world. Create a business that will thrive on it's own accord. Develop and hone your skills of accounting as you buy/sell/trade your way to successful proprietorship, and creating a live business where you sell a product/good. Keep track of Financial Records, Shipping, Sales, etc.

DESKTOP PUBLISHING – 1 semester – ½ Credit - 9-12th Grade

We live in a world of color, shape, depth, and dimension; and we are ever creating new and innovative ways to communicate. In Desktop Publishing students will learn to create, manipulate, and modify pictures, posters, advertisements, and publications on both a Digital and analog level. This course will delve deeply into the elements of design and require creative processing. Students will be in charge of creating and making a school-wide publication known as the T.P.

DRAFTING AND CAD – 1 Semester – ½ Credit - 9-12th Grade

Become immersed in a 2-D environment mastering your skills of the pencil and Pen creating hand drawn plotted plans such as Floor Plans, Product Sketches, diagrams etc. After honing our skills on paper, we will then introduce and migrate our skills into the computer aided drafting environment producing full prints and plots with Software.

RESEARCH AND DEVELOPMENT – 1 Semester – ½ Credit - 9-12th Grade

Become involved in a hands-on-learning approach to the world of innovative Design, engineering concepts, and creative problem solving as you learn to identify problems, identify possible solutions, and ultimately prototype your solutions to be fully tested against the problem. This class revolves heavily around hands-on design and prototyping in order to create solutions.

ENGINEERING I – 1 Semester – ½ Credit - 9-12th Grade

Looking to become an engineer? Interested in robotics? Enjoy LEGOS? Engineering I will challenge you to manipulate the world of engineering through robotics. Students will be required to troubleshoot and develop a solution to a problem with the use of Lego robotics.

ENGINEERING II – 1 Semester – ½ Credit - 10-12th Grade

Engineering II will require students to advance their practice and knowledge of robotics with engineering. Students will delve deeper into the robotics world by creating more advanced programming, technical design of robotics and more difficult problem solving. Students will also compete in the FTL (First Tech League)

DIGITAL PHOTOGRAPHY – 1 Semester – ½ Credit - 9-12th Grade

Enjoy taking pictures? Love photography? Interested in becoming a photographer? Students will be immersed in the world of Digital photography, looking at varying ways to use their cameras to create aesthetically pleasing photos, artistically styled portraits, and also product serious based photography as well.

DIGITAL AUDIO – 1 Semester – ½ Credit - 9-12th Grade

Want to create your own music? Learn to make rhythms and beats, or sing until your hearts content as you are immersed in the world of audio. Students will create manipulate and render the art of loop tracking, creating basic music composition for products, and also composing narratives utilizing story's and writing reviews.

TRANSPORTATION AND ENERGY – 1 Semester – ½ Credit – 9-12th Grade

Become involved in the world around you by learning about transportation methods including air, space, water, and land. Also learn about harnessing energy resources that can be used in our daily lives. This class will engage in theory and hands-on-learning and become involved in an international experience of transportation and energy.

TECH EX! – 1 semesters – ½ credit – 9th Grade. This course is a must for students interested in exploring the ever-changing world of several technology fields, while engaging in hands on lab experiences. Topics could include transportation, energy, GIS/GPS, electricity, automotive maintenance, engineering and manufacturing, and marketing. Students will develop an awareness of currently developing technology science and utilization on a global perspective. Careers related to these areas will be highlighted and explored.

AGRICULTURE AND VOCATIONAL EDUCATION

AGRICULTURE CARPENTRY AND WOODWORKING I

½ Credit, 72 hours, 1 semester class, Grades 9-12 - Elective
Course emphasizes safe use of tools related to wood construction. Students will build projects of their choosing, related to their individual ability as approved by the instructor. Basic math assignments are used to emphasize practical application of math skills. Students will be graded on soft skills such as work ethic, team skills, accountability, creativity, and neatness.

AGRICULTURE CARPENTRY AND WOODWORKING II

½ Credit, 72 hours, 1 semester class Grades 9-12 - Elective
Course emphasizes safe use of tools related to wood construction. Students will build projects of their choosing, related to their individual ability as approved by the instructor. Basic math assignments are used to emphasize practical application of math skills. Students are to use advances techniques in design and construction. Ability to investigate and utilize increased range of adjustments and settings of machinery to create more difficult

projects is needed. Students will be graded on soft skills such as work ethic, team skills, accountability, creativity, and neatness.

Project quality and attention to detail will form a large portion of the grade.

AGRICULTURE CARPENTRY AND WOODWORKING III

½ Credit, 72 hours, 1 semester class, Grades 9-12 - Elective
Course includes all of the content in Ag Carpentry and Woodworking I and II, but emphasis is on a highly individualized instruction. Students will design and construct complex projects, and may also create their own jigs, guides and templates that would be useful for other students. They may also spend some time in peer teaching of lower level students. Students will be graded on soft skills such as work ethic, team skills, accountability, creativity, and neatness. Project quality and attention to detail will form a large portion of the grade. Degree of difficulty and mastery will be a consideration in grading.

WELDING I

½ credit, 72 hours, 1 semester class, Grades 9-12 – Elective
Students will learn the basic equipment needed and skill necessary for arc and oxy-acetylene welding, and Mig and Tig welding. Students may also learn basic hand forging techniques. Students will learn proper use of the plasma torch. Sample welds on all types of welding will be required. Course emphasizes safety and correct technique of welding basics. Students will be required to turn in certain practice welds and build a final project. Students who are juniors and seniors and earn an A or B in the course may receive college credit.

WELDING II

½ credit, 72 hours, 1 semester class, Grades 9-12 - Elective
Students will learn the basic equipment needed and skill necessary for arc and oxy-acetylene welding, and Mig and Tig welding. Students may also learn basic hand forging techniques. Students will learn proper use of the plasma torch. Sample welds on all types of welding will be required. Course emphasizes safety and correct technique of welding basics. Students will be required to turn in certain practice welds and build a final project.

NATURAL RESOURCES/WILDLIFE MANAGEMENT 1/2 credit, 72 hours, 1 semester class, Grades 9-12 - Science elective credit

Students will begin the course with a unit in forestry, which will include tree identification, timber cruising and basic forestry management, as well as careers in forestry. Students will gain a foundation in the management aspects of large and small wildlife animals in Minnesota. If offered back-to-back semesters, one semester will be mainly large mammals and next semester will be smaller mammals, birds and fish. The course includes history on various species, their characteristics and life cycles, habitat needs, habitat management, benefits wildlife provide plus use and preparation of harvested game species. Ethics of hunting and conservation is also explored. Physiology of game animals is studied in the areas of digestion and reproduction. Students will take identification

tests on different clusters of animals such as game birds, fish and mammals. Careers involving natural resources will be explored.

PLANT SCIENCE

½ credit, 72 hours, 1 semester class, Grades 9-12 - Science elective credit

A one-semester course discussing the growth, physiology and production of plants. Scientific management of the greenhouse itself, such as temperature and humidity adjustments and integrated pest management will be studied. Students will explore and design individual plant science experiments, compile data on the experiments and report their findings to the class. Students will be able to identify and name a variety of plants. Emphasis will be on a variety of agricultural and horticultural crops, and careers in plants, soils and agricultural sciences will be explored.

LANDSCAPING

½ credit, 72 hours, 1 semester class, could be a ¼ credit, 36 hour class in spring only, Grades 9-12 - Prerequisite: plant science is recommended

Students will review the basics of plant and soil science as well as horticulture. They will study the physiology and growing conditions of plants related to landscaping. They will learn to identify and name many of the common plants used in local landscaping as well as design individual and a group project that could be planted for the school. Actual planning of a landscape bed is a goal, and students will develop a plan for funding the project that they will use to approach a community organization for funding.

AGRICULTURE SCIENCE

½ credit, 72 hours, 1 semester course, Grades 9-12 - Science Elective credit

Students will develop an appreciation for how agriculture in the United States ties in worldwide, the history of agriculture and what agriculture holds for the future. Many scientific areas will be explored such as entomology, weed science, soil science, animal science, biotechnology, genetics and food science. This smorgasbord of tasting ag science is designed to get students to wonder about their potential in agriculture and at the same time explore some subject areas not covered in other classes.

HYDROPONICS

½ credit, 72 hours, 1 semester class (spring), Grades 9-12. Prerequisites: recommend plant science - Science elective credit

Students review the basics of plant science to research, design and develop their own hydroponic systems in the greenhouse! The goal will be to see how successful you can be growing your crop, with no soil, while learning about water nutrient testing and plant growth management. If you are lucky, you will have a tasty crop to eat by year end. Students will be exposed to a wide variety of scientific concepts such as plant identification, genetics, disease, pests, and management practices. Career opportunities and educational preparation are examined.

AQUAPONICS

½ credit, 72 hours, 1 Semester (Spring), Grades 9-12.

Prerequisites: Hydroponics and/ or Plant Science or instructor consent - Science elective credit

Get ready to test your ability to recreate what nature is able to do. In this course you will grow plants and fish in the same systems, without the use of any soil. Basics of plant science are quickly reviewed, then the biology of fish is explored.

Anatomy, physiology, morphology and growth concerns of fish will be analyzed. Students will research and design aquaponic systems in groups in the greenhouse. The goal will be to grow a good plant crop and fish crop at the same time.

Sounds easy?

This is real living biology you can practice on!

SMALL ANIMAL SCIENCE

¼ credit, 36 hours 1quarter class, Grades: 9-12 - Elective

If you love dogs and cats, then this is the course for you. This course will deal primarily on the principles of the small industry, animal and human safety, animal rights and welfare, animal careers, animal nutrition and training. A large amount of time will be spent on the care, management, and selection of your favorite breeds. Health care and diseases will also be addressed.

FLORICULTURE

¼ credit, 36 hours, 1 quarter class, Grades 9-12 - Elective

Do you like design? Do you like flowers? Do you like hands-on projects? If so, this is the class for you. In floriculture we will examine the floral industry, history, design principles, floral arrangements and careers. This class will involve designing with silk and fresh flowers.

SMALL GASOLINE ENGINES I

½ credit, 72 hours, 1 semester class, Grades 9-12 - Elective

Students interested in the basics of small engine operation and maintenance would enjoy this class. Course will include the uses of small engines, history and future developments. Engine mechanics, parts and operation are the main topics included.

AGRIBUSINESS MANAGEMENT AND SUPERVISED AGRICULTURAL EXPERIENCE (SAE)

½ credit, 72 hours, 1 semester class, Grades 9-12 - Elective

Ever consider owning your own business? Want to have a clue how to manage your money when you are on your own?

Here students apply, in real life situations, the concepts of business management, record keeping of investments of time and money and energy. An on-line record keeping and accounting program will be utilized to help students gain an understanding of finances, goal setting, self-improvement, budgeting and decision-making.

EQUINE (HORSE) SCIENCE

½ credit, 72 hours, 1 semester class, Possible ¼ credit, quarter class, Grades 9-12 - Elective

Have a horse but don't know how to train and care for it properly? Want to have one someday but have had little or no experience or possibly a bad one?

Horses can teach us many things about are own abilities!

Course will emphasize the history and future of the horse industry, the management and care of horses, the diseases and health of horses, as well as the nutrition, feeding, equipment and training of the horse. Safety in handling horses will be emphasized as well as career opportunities in the horse industry. Breed selection and conformation will be discussed.

AG FOOD SCIENCE

½ credit, 72 hours, 1 semester class, Possible ¼ credit, 1 quarter class, Grades 9-12 - Elective

Love food, but curious about how the ingredients in food actually make things happen?

This course discusses where our food comes from, from the farm to the table and steps in between. Emphasis is on the chemistry and biology of food, and on experimentation with ingredients and cooking methods. Students will have the opportunity to make and eat foods and food products that they develop through trial and experimentation. Food safety and handling is emphasized. Products such as sourdough bread, yogurt, cheese, and pizza are just the beginning of the potential labs! Careers in the food industry will be highlighted.

AG LEADERSHIP

½ credit, 72 hours, 1 semester class, Grades 9-12

Are you prepared for the world of work? Do you know how to fill out a job application?

Are you able to write a resume that will land you that dream job? Want to get a better handle on what you really want in life, how to make your future what you want it to be?

This course will help you to develop yourself as a human being so you can become a valuable member of your family and community. Emphasis is on self-discovery and how it relates to where you want to go with your life, and the tools to help get you there.

VETERINARY TECHNOLOGY I AND II

½ credit 1 semester classes, Grades 9-12 - Prerequisites: none (biology is helpful) prerequisite for Vet Tech II is Vet Tech I or instructor consent. Different units will be covered in the two classes. - Science elective credit

Love animals? Thinking about a career in human medicine or nursing?

This class is an in depth class in animal science, medical terminology and the biology of body systems. Laboratory experiences related to medical knowledge will be explored. The anatomy and physiology of the skeletal, muscular, circulatory, respiratory, urinary and nervous systems will be studied in detail and related to practical experience. Diseases and their identification, symptoms, prevention and immunity will be explored. Students will gain a working knowledge of medical terminology and the terms related to large animal species.

Safety around large and small animals will be discussed and students will perform exams on animals. Careers in this area are in demand!

WORLD LANGUAGE

SPANISH I - 1 year, 2 semesters – ½ credit each semester. Elective course for 9-12 grades.

The goal of level one Spanish is communicative competence t novice-level proficiency in listening, speaking, reading, and writing of the target language. The course progressively enables students to: comprehend the language at a conversational speed in subjects within their vocabulary and structure range; read materials involving vocabulary and structure studies; write on subjects within their vocabulary and structure range; speak and interact with proper pronunciation and intonation within their vocabulary and structure range; and understand cultural perspectives, customs, art, and music of the twenty countries where Spanish is the national language.

SPANISH II - 1 year, 2 semesters – ½ credit each semester. Elective course for 9-12 grades.

This course is a continuation of the objectives and skills presented in Spanish I. The course progressively enables students to: comprehend the language at a conversational speed in subjects within their vocabulary and structure range; read materials involving vocabulary and structure studies; write on subjects within their vocabulary and structure range; speak and interact with proper pronunciation and intonation within their vocabulary and structure range; and understand cultural perspectives, customs, art, and music of the twenty countries where Spanish is the national language.

SPANISH III - 1 year, 2 semesters – ½ credit each semester. Elective course for 9-12 grades.

This course is a continuation of the objectives and skills presented in Spanish I and Spanish II. This course is designed to: continue development and refine conversation ability and vocabulary span; improve reading comprehension and exposure to literature in Spanish; further improve writing skills; and further increase knowledge of the culture, literature, art and music of the twenty countries where Spanish is the national language.

PHYSICAL EDUCATION AND HEALTH

9TH GRADE PHYSICAL EDUCATION - 1 semester – ½ credit. Required for all 9th graders.

The goals of this course are to: develop improved health and physical fitness, increase movement skills and accuracy, socialize with other individuals, improve self-understanding and appreciation of sports, increase knowledge of sports rules, encourage better use of leisure time and provide emotional release in an entertaining and constructive way.

9TH GRADE HEALTH (*HUMAN SEXUALITY*) - 1 quarter – ¼ credit. Required for all 9th graders. (Combined with Driver's Ed for a semester)

The goals of this course are to: understand the changes in the human body, enable students to make proper choices, learn the proper ways to handle peer pressure, learn and develop ways to handle the power of touch, develop an understanding of human development, provide an understanding of proper

dating methods, and understand the issues involved with maturing into an adult.

LIFE SPORTS - 1 year – 2 semesters. ½ credit for each semester.

This course is designed to increase the student's knowledge of various sports. Instruction will be provided in the rules of each sport as well as fundamental techniques for participating. This course will provide a variety of ways for students to learn how to better use leisure time and maintain a lifestyle of fitness.

LIFE FITNESS

1 year – 2 semester. ½ credit for each semester.

This course is designed to teach and reinforce the skills and activities for maintaining a healthy lifestyle. Students will develop and complete fitness programs designed to meet goals that they have selected. Students will receive instruction on the techniques for proper weight – training and cardiovascular fitness.

CIS/PSEO Course Descriptions for 2013 – 2014

AMSL 1410 American Sign Language I – Credits: 4

Prerequisite: none

In this introductory course, you will engage in receptive and expressive language readiness activities as well as learn vocabulary, basic use of ASL grammatical structure and signing space, conversational regulators, fingerspelling and introductory aspects. Students will learn appropriate introductions, how to exchange personal information, sign about their surroundings, explain where they live, speak about their family and converse about activities. Basic aspects of Deaf Culture will also be integrated throughout the course. Transfer Curriculum Goal(s): 8

AMSL 1412 American Sign Language II – Credits: 4

Prerequisite: AMSL 1410

In this level 2 introductory course, you will engage in receptive and expressive language readiness activities as well as continuing to learn vocabulary, basic use of ASL grammatical structure and signing space, conversational regulators, fingerspelling and introductory aspects. Students will learn to give directions, describe physical and personal characteristics of others, make requests and talk about family, routines and occupations. Basic aspects of Deaf Culture will also be integrated throughout the course. Transfer Curriculum Goal(s): 8

BUSN 1501 Introduction to Business – Credits: 3

Prerequisite: None

This course is a survey of the forces that shape business in American and overview of how American business responds. Topics include business economics, forms of business organizations, management functions, marketing procedures, business finance, and insurance considerations. Transfer Curriculum Goal(s): None

CHEM 1414 Fundamentals of Chemistry – Credits: 4

Prerequisite: none

This course involves the study of general laws of chemistry, periodicity, atomic and molecular structure, physical and chemical changes.

Transfer Curriculum Goal(s): 3

CHEM 1405 Life Science Chemistry – Credits: 3

Prerequisite: none

This course will provide the student with an introduction to general, organic and biological chemistry. Topics include: scientific measurement, atomic and molecular structure, periodicity, chemical bonding, nomenclature, chemical reactions, nuclear chemistry, solutions, acids, bases, organic functional groups, carbohydrates, lipids, amino acids, proteins and enzymes.

Transfer Curriculum Goal(s): 3

CHEM 1406 Life Science Chemistry Lab – Credits: 1

Prerequisite: none

The activities in this laboratory are used to enhance understanding of concepts and theories discussed in the Life Science Chemistry lecture course. A variety of methods and equipment used in scientific inquiry will be employed in verification of various scientific laws and theories. Students will perform laboratory protocols, collect data, make calculations, assess outcomes, and form conclusions.

Transfer Curriculum Goal(s): 3

CCST 1570 Thinking, Learning and Communicating – Credits: 3

Prerequisite: none

The goal of this course is to help you grow academically and personally.

The course is ideal for you if your career goals are still unclear or if you have reached a point in your life where you “feel stuck.” Topics include self-assessment, logical reasoning, study skills, goal setting, and active learning. You will have opportunities to grow in the ways you think, learn, and communicate. It is recommended that students enroll in PSYC 1411 Personal Growth & Behavior concurrently or the following semester.

Transfer Curriculum Goal(s): none

ESCI 1405 Astronomy – Credits: 4

Prerequisite: none

This course is a survey of the science of Astronomy at the introductory level. Topics include, but are not limited to, the history of the science of Astronomy, the solar system and comparative planetology, the Sun, stars and stellar evolution, the Milky Way galaxy, galaxies and galactic evolution, the Universe, cosmology, extrasolar planets, and extra-terrestrial life. Weekly laboratory participation is required for this course. Lab activities support lecture section topics and involve using the tools and instruments of astronomy. Nighttime astronomy field trips are an integral part of the course when conditions permit.

Transfer Curriculum Goal(s): 3

ESCI 1444 Natural Disasters – Credits: 3

Prerequisite: None

This course is a survey of phenomena known collectively as natural disasters, covered from the geoscientific perspective, with consideration for the impact of such events on human societies. Topics in this course will include volcanoes, hurricanes, tsunamis, earthquakes, and others. Course also includes studies of the underlying processes that create the environment for these events, such as plate tectonics, the oceanic heat budget, and atmospheric circulation.

Transfer Curriculum Goal(s): 3, 10

ESCI 1451 Oceanography – Credits: 3

Prerequisite: none

This course is an introduction to the science of oceanography through the interdisciplinary areas of biological, chemical, geological, and physical oceanography. Topics include ocean floor, plate tectonics, seawater chemistry, currents, waves, tides, coasts, and marine life. Contemporary environmental topics are also part of this course and may include marine contamination, marine noise, overfishing, alternative energy, global climate change, tsunami and storms, coastal issues, and marine resources.

Transfer Curriculum Goal(s): 3,10

ECON 1450 American Economy – Credits: 3

Prerequisite: None

This course is an introduction to and a descriptive survey of the modern American Economy. Concentration is on the major forces affecting the economy, with special attention given to the role and responsibility of the federal government.

Transfer Curriculum Goal(s): 5

ENGR 1500 Introduction to Engineering – Credits: 2

Prerequisite: none

History of engineering achievements, social impact of engineering, critical thinking and engineering problem solving; engineering careers and work opportunities, professional responsibilities and ethics. Introductions to the use of MS Word, Power Point, Excel and Mathematics in engineering.

Transfer Curriculum Goal(s): none

ENGL 1410 Composition I – Credits: 4

Prerequisite: Accuplacer reading comprehension score of 78.

The rhetorical strategies of description, narration, and exposition (including but not limited to exemplification, classification, process analysis, comparison /contrast, and definition) will be the focus of the course. A descriptive essay, a narrative essay, and five expository essays at the professor's discretion will constitute the seven formal essay assignments. Students may also be asked to write journals, a resume and letter of application, and to review grammar. Students will be expected to adhere to the basic writing process (brainstorming, outlining, drafting, and revision—individual and peer) and demonstrate their awareness of the following concepts in their reading and writing: thesis, audience, tone, unity, coherence, and emphasis. The course will also include a literature component (selections at professor's discretion) to present basic critical terminology and foster critical thinking skills.

Transfer Curriculum Goal(s): 1

ENGL 1411 Composition II – Credits: 4

Prerequisite: ENGL 1410

Students will write a minimum of five formal essays, demonstrating their familiarity with the following rhetorical strategies: analysis (of ideas or human situations into comparable or constituent parts) cause and effect reasoning, inductive/deductive reasoning, and argument/persuasion. Subjects may be but are not limited to reaction, evaluation, and interpretation of literature and/or Sociocultural phenomena. Students will learn the principles of the academic research process and their essays will demonstrate a command of both the APA (American Psychological Association) and the MLA (Modern Language Association) formats.
Transfer Curriculum Goal(s): 1

ENGL 2450 World Literature – Credits: 3

Prerequisite: none

This course is a study of selected works from Western and non-Western literary traditions. Focus will be on critical reading and discussion, the elements of literature, and analysis, interpretation, and evaluation of literature from different philosophies and cultures.
Transfer Curriculum Goal(s): 2,8

ENGL 2467 American Literature I – Credits: 3

Prerequisite: None

This course is a study of North American literature prior to the modern era. Non-fiction and literary works (short stories, novellas, poetry, and drama) will encapsulate the colonial, revolutionary, and romantic literary periods. The course focuses on literature as a reflection of the history of American ideas.
Transfer Curriculum Goal(s): 6,7

GEOG 1400 Physical Geography – Credits: 3

Prerequisite: none

Physical Geography examines the earth as a set of subsystems working together to sustain life. Included are studies of the earth as a planet, weather patterns, climates and the resulting distribution of vegetation and soils, as well as plate tectonics, landforms, weathering, and glacial landscapes.
Transfer Curriculum Goal(s): 5,10

HIST 1412 World History – Beg. to 1500 – Credits: 3

Prerequisite: None

This course will examine the development of world civilizations from pre-history to 1500, and will compare the religion, politics, economy and culture of various world civilizations. Examples will be drawn from Africa, Europe, Asia and the Americas.
Transfer Curriculum Goal(s): 5,8

HIST 1413 World History II, 1500 to Present – Credits: 3

Prerequisite:

This course will explore the major developments in world history from 1500 to the present. Topics will include the development of major culture areas and cultural groups that existed in 1500, the influence of European expansion and colonialism, democratic revolutions, industrialization, movements for

national liberation, and the rise of the global economy.

Transfer Curriculum Goal(s): 5,8

MATH 1460 Intro to Statistics – Credits: 4

Prerequisite: Accuplacer score of 50 or higher on the college level math exam or MATH 1506

This course covers descriptive statistics, sampling, probability, probability distributions, normal probability distributions, estimates and sample size, hypothesis testing, correlation and regression, inferences of two samples, and process control.
Transfer Curriculum Goal(s): 4

MATH 1470 College Algebra – Credits: 3

Prerequisite: Accuplacer score of 50 or higher on the college-level math exam or MATH 1506

This course covers topics such as functions and graphs, equations and inequalities, polynomial functions, rational functions, inverse functions, exponential functions, logarithmic functions, sequences and series, systems of equations and inequalities, and problem solving. A graphing approach is used and therefore the use of a graphing calculator will be highly emphasized.
Transfer Curriculum Goal(s): 4

MATH 1477 Calculus I – Credits: 5

Prerequisite: MATH 1472 or Accuplacer score of 86 or higher on college-level math exam

Co-Requisite: none

Review of the concept and properties of a function. Emphasis on the graphing and behavior of a function. Limits are introduced and developed. The derivative of a function is defined and applied to algebraic and trigonometric functions. Anti-differentiation and elementary differential equations. Definite integral as a limit of a sum and as related to anti-differentiation via the Fundamental Theorem of Calculus. Applications to maximum, minimum and related rates. Differentiation and integration of exponential and logarithmic functions.
Transfer Curriculum Goal(s): 4

MATH 1506 Beginning College Algebra – Credits: 4

Prerequisite: Accuplacer score of 52 or higher on Elementary Algebra exam or score of 65 or higher on Arithmetic exam.

This course will review many introductory algebra topics as well as introduce some new topics in algebra.

Topics taught in this course include linear equations, linear inequalities, equations of lines, graphing, exponents, polynomials, factoring, systems of equations, quadratic equations, rational expressions and equations, complex numbers, radicals, absolute value equations and inequalities, and functions. Additional topics may also be covered.
Transfer Curriculum Goal(s): none

MUSC 1457 Music Appreciation – Credits: 3

Prerequisite: none

This class is the study of all types of music from classical to rock and roll. Students will learn the many differences and similarities of diverse styles of music through music listening, group activities, guest performers, concerts, musical theater productions and other projects that enhance the understanding

and appreciation of all kinds of music past and present.
Transfer Curriculum Goal(s): 6

PHED 1522 Weight Training – Credits: 2

Prerequisite: none

This course is an advanced course in body conditioning and training with the use of free weights.

Transfer Curriculum Goal(s): none

PHED 1524 Recreational Sampler – Credits: 2

Prerequisite: none

This course will introduce a wide variety of recreational pursuits in the lakes area and the opportunity to try a number of them in an instructional and safe setting. The goal is to assist students in finding enjoyable, lifelong pursuits that add quality to their lives.

Transfer Curriculum Goal(s): none

POLS 1435 American Government and Politics – Credits: 3

Prerequisite: none

This course examines the players and institutions of contemporary American government and politics. Topics of study include: American political thought, the U.S. Constitution, federalism, civil liberties and civil rights, public opinion, interest groups, political parties, campaigns and elections, the mass media, Congress, the presidency, bureaucracy, and the judiciary. A special emphasis is placed on the role of citizen participation.

Transfer Curriculum Goal(s): 5,9

PSYC 2421 General Psychology – Credits: 4

Prerequisite: none

This class presents a general introduction to psychology as a biosocial science. This survey course will familiarize the student with the basic principles of psychology, show how psychologists employ the scientific method, and equip the beginning student of psychology with a working vocabulary of psychological terminology and critical thinking skills. Areas to be covered include research, the nervous system, learning, personality, memory, psychological disorders and therapy

Transfer Curriculum Goal(s): 2,5

PSYC 2431 Human Development – Credits: 3

Prerequisite: PSYC 2421

This course is a lifespan approach to understanding human behavior. This course will cover theories and research findings in the field of psychology relevant to the psychological development of individuals across the lifespan. Areas to be covered include physical, cognitive, emotional and social development. The course will examine similarities and differences between individuals in the various stages of the lifespan.

Transfer Curriculum Goal(s): 5

RAST 1110 Introduction to Manufacturing – Credits: 2

Prerequisite: none

This course provides a basic overview of basic manufacturing processes and career opportunities within manufacturing. Students will participate in a manufacturing simulation in which they will analyze the manufacturing process for a product and redesign the process to incorporate a teaming approach. Students will be given an introduction to the critical nature of safety in manufacturing and to the role of the individual in maintaining a safe work environment. This course provides students with an opportunity to develop their interpersonal skills through interactive exercises conducted in a team setting. Debriefing these exercises with all members of the class helps ensure that the exercises translate into personal and interpersonal learning for the participants.

Transfer Curriculum Goal(s): none

SOCL 1401 Introduction to Sociology – Credits: 3

Prerequisite: none

This foundation course is highly recommended as the starting point from which students may logically proceed to higher-level sociology classes. Students will be introduced to the fundamental concepts of the sociological perspective, including culture, socialization, organization, authority, deviance and inequality.

Transfer Curriculum Goal(s): 5

SOCL 2411 Social Problems – Credits: 3

Prerequisite: none

In this course students will examine current social problems from a sociological perspective. Students will focus on how social problems come to be defined, the ramifications of these problems, and possible solutions.

Who is poor and why? Why do some people engage in criminal activities while others do not? Is the “War on Drugs” working? The answers to these and other questions will be explored.

Transfer Curriculum Goal(s): 5,9

SPCH 1421 Interpersonal Communication – Credits: 3

Prerequisite: none

This is an introduction to the techniques of communication inherent in improving one-on-one skills, including: verbal and non-verbal communication, perception, self-disclosure, listening and feedback, sharing emotions, assertiveness, coping with conflict, and communicating with family, friends and in the workplace.

Transfer Curriculum Goal(s): 1

THTR 1451 Introduction to Theatre – Credits: 3

Prerequisite: None

This course is a survey of the various elements that make up the theatre experience, including a brief overview of the history of theatre development, and an examination of theatre traditions in non-Western cultures: including lecture, readings, and attendance of live performances.

Transfer Curriculum Goal(s): 6,8