

CHATFIELD HIGH SCHOOL REGISTRATION GUIDE 2019-2020 SCHOOL YEAR



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INTRODUCTION

A NOTE TO PARENTS/GUARDIANS & STUDENTS

This registration manual has been prepared to assist in the planning of each student's high school education. Parents and students should read over the course outlines and discuss them together. Once you become familiar with the course offerings, the next step is to plan out which courses you should take this year and the rest of your years at Chatfield High School. Please keep in mind that several courses require prerequisite courses. Prerequisite courses are those courses that must be completed prior to enrollment into another course. Once you have completed your plan make sure you store it in a safe place. You may even want your counselor to store it in your permanent file at school for future reference. The next step is to fill out the online 2019-2020 pre-registration form. After we have collected pre-registrations and made the master schedule in the spring, students will register for their actual 2019-2020 classes in Skyward.

The decisions you make now should be based on your future goals. Make the choices in view of what you have learned about yourself. Your interests, your abilities, and your past performances are good indicators to use as you plan your future educational goals.

If you have any questions about the scheduling process or the course offerings, be sure to talk to the counselor.

Career and College Readiness Resources

In today's global economy, students must be well-prepared for the demands of college and the workplace. Chatfield High School provides support to assist students as they transition from middle school to high school and into an increasingly wide array of postsecondary options. Each option is described below. For questions on any of these resources please contact: Lindsey Olson, Counselor, at lolson@chatfieldschools.com

Concurrent Enrollment

Chatfield High School partners with the University of Minnesota – Twin Cities, Minnesota State Southeast Technical, Riverland Community College, Southwest Minnesota State University, and Winona State University to offer the following college credit courses to our high school students here. Students who successfully complete these courses generate both high school and college credit from the partnering postsecondary institution. There is no cost to the student to participate in these courses, but there are entrance requirements. These courses provide high school students advanced skills today and greater flexibility when they enter the college/university setting full-time. That may include pursuing second majors and internships or studying abroad.

Chatfield offers the following Concurrent Enrollment Courses:

- ❖ College Algebra
- ❖ College Calculus
- ❖ College Physics
- ❖ College Chemistry
- ❖ College Animal Science
- ❖ College Anatomy and Physiology 1 and 2
- ❖ College Literature
- ❖ College European History 1 and 2

Advanced Placement (AP)

AP is a College Board program that offers high school students the opportunity to take rigorous, college-level courses and earn college credit while in high school. The content in AP courses is structured like college courses. Students who complete an AP course and take the end-of-course examination may qualify for college credit from postsecondary institutions, provided their score meets the institution's credit policy. These courses help prepare students for further education and many colleges look favorably on transcripts that include AP coursework. Chatfield offers the following Advanced Placement (AP) Courses:

- ❖ AP Psychology
- ❖ AP Biology

College-Level Examination Program (CLEP)

The College-Level Examination Program (CLEP) is a College Board program that allows students to accelerate their education by earning college credit by taking a computer-based test of their knowledge. Learning can be done through general academic instruction, independent study, extracurricular work or volunteerism. The time and money saved can be significant. Check with the postsecondary institution of your choice for their most recent CLEP credit policy. [Visit the College Board website for more information.](#)

Postsecondary Enrollment Options (PSEO)

PSEO is a program that allows students in 10th, 11th and 12th grades to earn both high school and college credit while still in high school, through enrollment in and successful completion of college-level, nonsectarian courses at eligible participating postsecondary institutions. Most PSEO courses are offered on the campus of the postsecondary institution; some courses are offered online. Each participating college or university sets its own requirements for enrollment into the PSEO courses. Eleventh and 12th-grade students may take PSEO courses on a full- or part-time basis; 10th graders may take one career/technical PSEO course. If they earn at least a grade C in that class, they may take additional PSEO courses.

There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course. Students must meet the PSEO residency and eligibility requirements and abide by participation limits specified in Minnesota Statutes, section 124D.09. If a school district determines a student is not on track to graduate, she/he may continue to participate in PSEO. Funds are available to help pay transportation expenses for qualifying students to participate in PSEO courses on college campuses. Schools must provide up-to-date information to all students in grades 8-11 and their families by March 1, every year. Students must notify their school by May 30 if they want to participate in PSEO for the following school year.

For current information about the PSEO program, [visit the Minnesota Department of Education's Postsecondary Enrollment Options \(PSEO\) webpage.](#)

PSEO for 10th Graders to take Career and Technical Education (CTE) courses

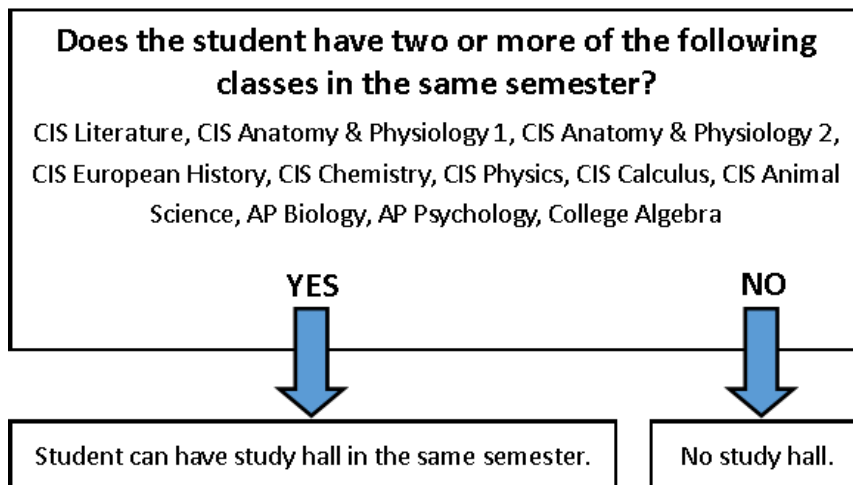
Legislation allows eligible 10th-grade students to enroll initially in one Career and Technical Education (CTE) course through PSEO. If the student earns a "C" or higher grade in this first course, she/he is eligible to take additional CTE courses while in 10th grade. In order to be eligible, a 10th-grade student must have met the proficiency level of "meets or exceeds" on the 8th-grade MCA reading test. If the student did not take the MCA, another reading assessment accepted by the enrolling postsecondary institution can be substituted.

How to Enroll in PSEO

Interested and eligible 11th- and 12th-grade students should contact the postsecondary institution to find out their eligibility requirements, which courses are offered and what the application process is at that institution. [Access the list of Participating Postsecondary Institutions at https://education.mn.gov/MDE/fam/dual/pseo/040787](https://education.mn.gov/MDE/fam/dual/pseo/040787). Interested and eligible public 10th-grade students should contact the postsecondary institution to find out which Career and Technical (CTE) courses are offered and what the application process is at that institution.

Senior Year Schedule Requirements

Seniors must have at least **SIX** credits for the year and at least **THREE** credits per semester. Seniors that have **TWO** CIS/AP (college) classes in **ONE** semester may have a study hall. Study hall must be scheduled/approved with the Counselor.



ADVICE TO COLLEGE & TECHNICAL COLLEGE BOUND STUDENTS

Because college entrance requirements vary greatly, we strongly recommend that the college-bound student become familiar with entrance requirements of the college of his/her choice by contacting the counselor. Most four-year colleges in Minnesota require a student to be in the upper half of his/her class and also perform satisfactorily on an entrance test. Colleges like to see students who have carried college preparatory courses or more academic subjects and have earned better than average grades in them. Consult your registration book and the counselor for this type of class in the different areas of learning.

In order for you to be adequately prepared for 2 year or 4 year college or technical college, you need take the following minimum courses:

English: 4 years of English requirements

Math: Geometry, Algebra II, Pre-Calc, Trigonometry OR College Algebra OR Statistics OR Energy, Power, and Transportation

Science: Biology, Chemistry, and Physics OR Environmental Science

Social Studies: 4 years of Social Studies requirements

Chatfield Graduation Requirements

- 4 credits English (Language Arts)**
Required Classes:
English 9, English 10 or Advanced English 10, and English 11
Select One:
English 12 or College in the Schools Literature (U of M)
- 4 credits Social Studies**
Required Classes:
American History I, American History II, World History and Senior Social
- 4 credits Math**
Required Classes:
Intermediate Algebra (1 credit), Geometry (1 credit), Algebra II (1 credit)
Select One Total Credit:
Pre-Calc (1/2 credit), Trigonometry (1/2 credit), Statistics (1/2 credit), College Algebra (1/2 credit), OR Energy, Power and Transportation (1 credit) OR CIS Calculus (1 credit)
- 4 credits Science**
Required Classes:
Physical Science, General Biology and Chemistry or Food Science Chemistry
Select One:
Environmental Science, Physics, Biotechnology, AP Biology, CIS Chemistry, CIS Human Anatomy and Physiology I, CIS Human Anatomy and Physiology II, CIS Intro to Animal Science, CIS Physics and/or Food Science Chemistry.
- 2 credit Physical and Health Education**
Required Classes:
Phy. Ed. 9 (1/2 credit), Phy. Ed. 10 (1/2 credit), Health 9 (1/2 credit) and Health 10 (1/2 credit)
- 1 credit Engineering/Industrial Tech. &/or Family & Consumer Science**
(Students may take any combination of Engineering/Industrial Tech or FACS to meet the requirements)
- 1 credit Economics and Finance**
- 1 credit Art and/or Music**
- 7 credits Electives**

28 Credits are required to graduate from Chatfield High School

(Note: Required classes listed above are all one credit classes unless stated otherwise)

*~ AGRICULTURE and
STEM (Science Technology Engineering and Mathematics) ~*

INTRO TO AGRICULTURE (9-10) 1 Credit

Careers, leadership and an introduction to agriculture are covered in this exploratory course. Students will spend time discussing the FFA, compiling a portfolio, designing a sales presentation and preparing a science fair project. Other areas that will be covered are small animals, food science, wildlife, horticulture, and business management. This course is hands-on and filled with valuable information.

BIOTECHNOLOGY (11-12) 1 Credit

Prerequisite: Successful completion of General Biology

This class is designed to give students a solid foundation in the principles, ethical issues and laboratory techniques of the rapidly growing field of science called biotechnology. Topics of study will include genetic engineering, forensics, stem cells, reproductive technology and food production. This class is appropriate for anyone considering a career in biology, medicine, agriculture, law enforcement or related fields.

FOOD SCIENCE CHEMISTRY (10-12) 1 Credit

Prerequisite: Successful completion of both Algebra I & Physical Science

Students must take Chemistry or Food Science Chemistry to meet the Chemistry requirement. What does it take to develop a new food? How does food start in the field and end up on my plate? Food Science Chemistry is a class that will answer these questions and more. Topics covered include: new food product development, the chemistry and biology behind the foods we eat, the origins of popular food products and how they are marketed as well as new food technology and trends. This course is primarily hands on and is offered to meet the Chemistry requirement or a science elective credit.

ENGINEERING 9 1 Credit

Engineering 9 is an introductory class to electricity and electrical wiring. Students will utilize science, math, and engineering concepts to explore circuits, wiring, and electrical systems. Students will be engaged with a combination of classroom and lab (shop) instruction. Students will become proficient at a variety of wiring and electrical techniques. Good technique will be stressed. Students will be required to demonstrate their wiring and electrical skills through hands-on activities and labs.

CIVIL ENGINEERING (10-12) 1 Credit

This class will be an introduction to drafting, residential design, production technology, construction, and land surveying. Students will utilize science, math, and engineering concepts to explore these topics. Students will be engaged with a combination of classroom and lab (shop) instruction. This class includes Print Reading 1 for which a student will earn two college credits if they attend Southeast Technical College in Winona for the Machining Technology program.

PRODUCTION ENGINEERING (10-12) 1 Credit

This course will provide students the opportunity to explore production engineering concepts as it relates to metals, plasma cutting, and design. Students will have hands on labs where they will implement concepts in the areas of oxy-acetylene welding and cutting, arc welding, MIG welding, plasma cutting and metal fabrication. Students will be engaged with a

combination of classroom and lab (shop) instruction. Students will become proficient at a variety of welds using a variety of electrodes. Good technique will be stressed. This class includes Print Reading 2 for which a student will earn two college credits if they attend Southeast Technical College in Winona for the Machining Technology program.

ENGINEERING DRAFTING/DESIGN (11-12)

1 Credit

This class will be an introduction to drafting and residential housing design. Students will utilize science, math, and engineering concepts to explore these topics. Students will be engaged with a combination of classroom and lab (shop) instruction. Projects will include floor plan of a house, a model house, plasma cut sign, 3D printed object, and a CNC router sign.

HORTICULTURE/LANDSCAPING (10-12)

1 Credit

Students will investigate and learn about greenhouse structures, hydroponics, aquaculture production, plant structures and identification, plant growth and propagation, control of plant disorders and pests, and fruit and vegetable production. Hands-on labs and activities make up a large part of this course and will be conducted in our commercial sized greenhouse.

CIS: INTRODUCTION TO ANIMAL SCIENCE (11-12)
(Four University of Minnesota Credits)

1 Credit

This is a college level introductory course that students may take for college credit through the University of Minnesota system. This is an excellent course for anyone with a career interest in veterinary medicine, agriculture or animal science careers. Students will be provided with classroom and hands-on instruction in the care and management of cattle, sheep, horses, pigs, goats, poultry and exotic species such as llamas and emus. This course is the equivalent of AnSci 1101 offered at the University of Minnesota – Twin Cities campus – COAFES Department.

MINNESOTA WILDLIFE (10-12)

1 Credit

This class is geared towards the student that is or that wants to become more aware of the wildlife around them. We will identify and research wildlife such as bears, fish, waterfowl and insects. Laws and safety around hunting will also be discussed along with forest management and tree identification.

ENERGY, POWER, AND TRANSPORTATION (10-12)

1 Credit

Students explore electrical, mechanical, fluid power systems and wind, solar, geothermal, and chemical energy systems. Students will use tools of technology, including computers, to develop knowledge and skills related to the production, conversion and storage of energy and systems used to power and control the vehicles of modern transportation systems. Student projects will include activities related to alternative energy systems, applied physics, electronics, hydraulics, pneumatics, mechanical power, flight and small engines. *This course can fulfill the fourth MATH elective credit.*

WORK EXPERIENCE (11-12)

1 Credit

Students learn how to develop a career plan that is individualized, employment skills, develop the technical competencies to succeed in their chosen career and become aware of the potential jobs available throughout the world. At the same time, the work experience allows the student to develop the skills necessary for successful employment by applying what is learned in class towards their current job, and bringing real life situations into class discussions. The students work on interpersonal relationships and communication skills

along with using computer technology to learn about the different facets of the working world. Students are expected and graded on working Monday through Friday when they are released from class (at 2) to go to their job site.

~ ART ~

EXPLORE ART (9-12)

1 Credit

This class covers a number of basic art techniques in various areas to give an overview of what is involved in higher levels of Senior High Art. Special attention is given to classroom procedures, safety, and the processes required to work in various art forms. Students will be introduced to critiquing the effectiveness of their own artwork and the artwork of others. The focus of the course will be on identifying the elements and principles of design to learn how these are used in a variety of media.

DIGITAL DESIGN (9-12)

1 Credit

The focus of this course is Digital Art, and how to choose the best program to help create the project you're working on. First semester will focus just on two-dimensional images whether that be drawing these images, or editing images. Second semester this course will focus all on film. Students will be creating stop motion films, all the way to short commercials to advertise a product.

DRAWING AND PAINTING (9-12) *NOT OFFERED 2019-20*

1 Credit

This course is intended to be an in-depth course for students that are particularly interested in 2-dimensional artwork. First semester focuses just on drawing, students will work with a variety of media such as graphite, oil pastel, charcoal, colored pencil, etc. Second semester will be focused on painting using watercolors, acrylic paint, and oil paint.

CERAMICS AND SCULPTURE (9-12) *NOT OFFERED 2019-20*

1 Credit

This course is intended to be an in-depth course for students that are particularly interested in 3-dimensional artwork. First semester begins with clay work. It covers slab and pinch construction vessels in clay, throwing on the potter's wheel, kiln firing, coil construction in clay, creating miniature clay architecture. Second semester focusing on other types of sculpture including paper mache, soapstone, jewelry making, and stained glass.

THEATRE ARTS (9-12) 1 Semester

1 Credit

This course introduces and explores theatre from page to stage as a live performing art. Topics include the relationship between theatre and society (historical and contemporary), dramatic structure, theatrical representation, and the crafts of theatre artists such as directors, designers, playwrights, and actors. Students will explore theatre through reading, viewing, and listening to classic and noteworthy theatrical plays. Improv and an introduction to theatrical terminology will also be a focus of this course.

~ ENGLISH REQUIRED CLASSES ~

ENGLISH 9 (required grades 9-12) 1 Credit

Emphasis on Grammar, Essay Writing Skills, and Vocabulary Improvement.

Classic novels and short stories will be focal points of English 9. Students will study basic literary terminology. Grammar, vocabulary, and thematic essays will also be covered in the course.

ENGLISH 10 (required grades 10-12) 1 Credit

(May take ADVANCED English 10 instead)

Emphasis on American Literature, MLA Researching and Writing, Literary Analysis, and Public Speaking. English 10 students will read *To Kill a Mockingbird*, *The Great Gatsby*, and *Night*. Students will write academic essays and deliver three speeches.

ADVANCED ENGLISH 10 (required grades 10-12) 1 Credit

(May take in place of English 10)

Emphasis on American Literature, MLA Researching and Writing, Literary Analysis, Public Speaking, and classroom discussion. Advanced English 10 students will read *To Kill a Mockingbird*, *The Great Gatsby*, *Night*, and other American literature classics. Students will be required to write academic essays, complete a 5-page MLA research paper, and deliver three speeches. The pace of this class will be faster than the regular English 10 course and more outside reading will be required.

ENGLISH 11 (required grades 10-12) 1 Credit

Emphasis on British Literature, MLA Researching and Writing, and Literary Analysis. Pivotal elements of British poetry, drama, short stories, and the novel will be thoroughly evaluated in this class. Students engage in rigorous researching and writing to produce a 7-8 page MLA research paper. A wide range of literary terms, analogies, and shorter essays are part of the curriculum.

ENGLISH 12 (required grades 11-12) 1 Credit

(May take CIS Introduction to Literature instead)

Emphasis on World Literature, MLA Research and Writing, and Literary Analysis.

This course is designed for both the college and the non-college bound student. Course work will include reading a variety of literature, which may include selections such as *The Adventures of Huckleberry Finn*, *Hamlet*, and *The Sun Also Rises*. Students will study authors from around the world and learn to analyze and interpret high school level literature. A major research project will be required for this class.

CIS ENGL 1001W – INTRODUCTION TO LITERATURE

4 University of Minnesota Credits

1 Credit for CHS

(May take in place of English 12)

This course will be reading and writing intensive. It is a college level course using curriculum approved by the University of Minnesota. Credit will be given for in-depth analysis of novels, both in the written form and through discussion. Only those seniors in the top 30% of their class are eligible for this course.

SPORTS & AUTOMOTIVE LITERATURE *NOT OFFERED 2019-20* 1 Credit

The first part of this course explores American literature and media that celebrates the role and influence of the automobile. The automobile's historical role and cultural significance will be evaluated thoroughly in regards to mobility, race, gender, class, age, and identity. Students will read automobile-related literature from a wide variety of different authors. Writing and presenting about the automobile's influence in American literature and media will allow students to play an active role in this class. Literature will be evaluated from authors such as Erdrich, Fitzgerald, Stein, Steinbeck, and Kerouac.

The second half of this course is designed to introduce literature that explores, analyzes, and/or celebrates the role and influence of athletics in individuals' lives and society. Students will discover the major themes of sports literature such as competition, physical fitness, character, sportsmanship, team unity, fanaticism, and gender equity. Students will read different genres of literature, write and present on critical pieces about the influence of sports on society. Students will listen to sports broadcasts and analyze tone, metaphors, and similes.

~ MATHEMATICS (Must take 4 years of Math) ~

STATISTICS (11-12) ½ Credit

Students will study aspects of statistics, including data collection, bias, the normal distribution, hypothesis testing, and confidence intervals. Specific emphasis will be placed on real-world connections and drawing conclusions from data.

ALGEBRA II (10-12) 1 Credit

Prerequisite: Intermediate Algebra

A study of operations of algebra, properties of real numbers, linear equations, functions, polynomials, factoring, rational expressions, radicals, irrational numbers, quadratic equations, complex numbers, sequences and series, exponential functions and logs, permutations, combinations, probability, and trigonometry sufficient for Physics. Students are strongly encouraged to buy their own graphing calculator.

INTERMEDIATE ALGEBRA (9-12) 1 Credit

Intermediate Algebra is a study of the mathematics of variables, the solving of linear and quadratic equations, by applying the properties of real numbers, factoring and using the quadratic formula, and a study of the graphs and solutions of equations involving one variable, two variables, inequalities, and quadratic. All this is combined with story problems to give practical applications to Algebra.

GEOMETRY (9-12) 1 Credit

Prerequisite: 9th Grade Algebra

In Geometry, students apply concepts from the study of two- and three-dimensional figures using hands-on geometric tools, as well as dynamic computer software. Emphasis is placed on using deductive reasoning in the analysis of the geometric topics of points, lines, planes, angles, parallel lines, congruence, similarity, polygons, circles, the Pythagorean theorem, right triangle trigonometry, area, volume, perimeter, Euclidean constructions, coordinate geometry, and transformations.

COLLEGE ALGEBRA (11-12)**½ Credit****Prerequisite: Algebra II**

The course will be a course based on the curriculum used at Winona State University with credit coming from Riverland Community College. This course will give students a rigorous preparation in algebra. Topics include review of basic algebraic concepts; functions and graphs; polynomial, radical, rational, exponential and logarithmic functions; equations, inequalities, systems of equations and inequalities; and applications.

CIS CALCULUS (11-12)**1 Credit****Prerequisite: “C” or better in Pre-Calculus and Trigonometry**

This course focuses on the three central concepts of calculus: the study of limits, differentiation of single-variable functions, and the basics of integration of single-variable functions.

PRE-CALCULUS (11-12)**½ Credit****Prerequisite: “C” or better in Algebra II**

This course focuses on extensions of algebraic topics such as exponential functions, logarithmic properties, matrices, sequences and series. There will also be geometric extensions with graphing and conic sections.

TRIGONOMETRY (11-12)**½ Credit**

This course covers a broad array of topics in the area of trigonometry. Beginning with simple trigonometric equations into advanced graphic and applied trigonometry.

ENERGY, POWER, AND TRANSPORTATION (10-12)**1 Credit**

Students explore electrical, mechanical, fluid power systems and wind, solar, geothermal, and chemical energy systems. Students will use tools of technology, including computers, to develop knowledge and skills related to the production, conversion and storage of energy and systems used to power and control the vehicles of modern transportation systems. Student projects will include activities related to alternative energy systems, applied physics, electronics, hydraulics, pneumatics, mechanical power, flight and small engines. *This course can fulfill the fourth MATH elective credit.*

Recommended Order of Sequence for the Advanced Math Students:

- Intermediate Algebra
- Geometry
- Algebra II
- Pre-Calculus, Trigonometry or Energy, Power, and Transportation or College Algebra
- CIS Calculus and/or AP Statistics

~ MUSIC ~

CONCERT CHOIR (9-12) Full Year

1 Credit

Prerequisite: Previous experience preferred & commitment to sing with excellence.

The Choral Music Program is designed for students to achieve excellence as an ensemble through the study of music literacy and performance of quality vocal literature. Students will develop skills in sight singing, healthy vocal production, choral artistry, and musicianship while performing literature of various time periods and styles. Concert Choir rehearses five periods per week and performs at the Veteran's Day Concert, Winter Concert, Festival Concert, and Spring Concert. The choir also performs at large group (required - full choir) and small group (not required – solo /ensemble) MSHSL festivals each year. Other opportunities to perform include, but are not limited to: caroling, small group appearances, sporting events, etc. Students are also encouraged to audition for and participate in Women's Choir, Men's Choir, and various honor choirs and festivals throughout the year.

WIND ENSEMBLE (9-12) Full Year

1 Credit

Prerequisite: Successful completion of MS Concert Band. Students need to exhibit mastery of the 12 major scales and grade - appropriate band literature. If not, the student will continue lesson instruction until mastery is achieved. New students to the school district are required to meet with the instructor prior to registration to get placement instructions. The HS Wind Ensemble meets daily for 45 minutes. Emphasis shifts from the skill-building of the early band years to the nuance, finesse, and artistry required in an actively performing ensemble. Required participation past daily rehearsal involves:

Evening curricular concerts

- 1) The band program's Veteran's Day/Fall Concert in early/mid-November
- 2) The choir program's Holiday Concert in early/mid-December
- 3) MSHSL Large Group Festival in mid/late March
- 4) Home Concert showcasing the competition pieces from the MSHSL festival in mid/late March
- 5) The band program's Pops Concert in mid/late April

Community events

- 1) Memorial Day Parade and Program in May
- 2) CHS Graduation ceremony in June

Marching Band events

- 1) Homecoming festivities (Marching Field Show, parade, pep fest, coronation ceremony)
- 2) Western Days Parade in August

Pep Band appearances

Students provide music for our athletic events in accordance with MBDA guidelines. Three to four games per sport per season for Football, Volleyball, Girls Basketball, and Boys Basketball. We play at two Wrestling events per season.

Morning sectionals

Meet once a week with other students who play your same instrument in the HS band room from 7:30am-8:30am, improving specific instrument technique and providing more individualized instruction. (All flutes together, all trumpets together, etc.) Schedule is varied each year and determined by instructor, taking into consideration differing school/staff schedules, and student involvement in other activities.

All of the above performance opportunities create a well-rounded musician that learns quality music and serves the school and community in a leadership capacity. Jazz ensemble and various honor band festivals round out the wind ensemble student's resume, if desired.

~ PERSONAL FITNESS ~

HEALTH 9/10

½ Credit

The health department for senior high school is a required curriculum for boys and girls in 9th and 10th grade. The curriculum is now set up for a mix of freshmen and sophomores. The students will receive ½ credit each year, for 2 years of health 9/10. There will be a syllabus A for the odd school years, for example the 2018-19 school year and a syllabus B will be for even school years, for example the 2019-2020 school year. Below will be the breakdown for each year. This curriculum will also be using outside speakers from Chatfield EMT for First Aid/CPR, Lifesource and the importance of being an organ donor, and Olmsted Public Health personnel for a variety of topics such as relationships, stress, drugs and alcohol, driving skills and safety, STD/STI, nutrition, suicide, etc.

Health A Year (2018-19 School Year)

Health units to be focused on this year but not limited to are the following:

1. Health and Wellness
2. Physical Fitness
3. Death Ed/Grief and Loss
4. Suicide
5. Marriage and Parenthood
6. Understanding Family Relationships
7. Sexually Transmitted Diseases
8. Noninfectious Diseases
9. First Aid and CPR
10. Mental and Emotional Health

Health B Year (2019-20 School Year)

Health units to be focused on this year but not limited to are the following:

1. Stress Management
2. Your Body Systems
3. Conflict Management
4. Preventing Violence and Abuse
5. Infectious Diseases
6. Managing Mental and Emotional Health
7. Stages of Life
8. Adolescent Growth and Development
9. Alcohol and Illegal Drugs

PHY ED 9 & 10 (required grades 9-10)

½ Credit per Year

The physical education program for the senior high school is required activity for boys and girls in 9th and 10th grade. Students in grade 9 and 10 will receive 1/2 credit for Phy Ed 9 and 1/2 credit for Phy Ed 10. Emphasis will be on personal fitness. Papers will be assigned for absences or other reasons for missed classroom participation.

LIFETIME ACTIVITY AND FITNESS (11-12)**1 Credit****Prerequisite: Minimum A- in 10th grade PE and/or approval from the instructor.**

This course will focus on developing a better understanding of the different lifetime leisure activities, and fitness choices related to maintain a healthy living style. Possible activities and fitness programs will include tennis, bowling, golf, badminton, ping pong, biking, Frisbee games, yard games, snow shoeing, intermural/Coed sports, weight training, yoga, Pilates, and cardio kickboxing.

WEIGHT LIFTING PROGRAM (No Credit / Grades 11-12)

Students will have an independent weight lifting program that will be set up by the PE/HEALTH instructor or weight lifting coordinator for no credit. This class is set up for students with very busy schedules before and after school.

~ RESOURCE ROOM ~

The resource room provides specialized instruction for students who have been identified as having a specified disability. The student must meet state and federal criteria to qualify for services in the area of their disability. The student must be referred to the Child Study Team and a due process must be followed to ensure that each student meets criteria and is in need of assistance. If the student qualifies for specialized instruction in the resource room they may receive instruction in the area of their disability. The students may receive specialized instruction in the areas of math, reading, writing, daily living skills, organization, transition, basic living skills, career training, speech, Developmental Adapted Physical Education, Deaf and Hard of Hearing, counseling and others. Some students may take a particular academic subject in the resource room while others do extra assignments to help them improve skills in which they are weak.

Offerings for Resource Room Students: Details need to be worked out with your Resource Room Teacher.

EMPLOYMENT SEMINAR (11-12)**Up To Full Year****1/2 to 1 Credit*****~ SCIENCE ~*****PHYSICAL SCIENCE (required grade 9)****1 Credit**

Physical Science is an introductory science course involving the study of chemistry and physics concepts. There is an emphasis on mathematics as a tool for the investigation of both fields of science. Topics include the scientific method, metric measurement, graphical analysis of data, the composition and interactions of matter, atomic structure, the periodic table, chemical bonding and equations, the laws of motion, forces, energy, work and power. Students will need a hard-sided 2-inch thick three-ring binder, a non-scientific calculator, and colored pencils.

GENERAL BIOLOGY (required grade 10) 1 Credit

Biology is an introduction to the basic principles of living things. Laboratory work will be stressed in areas such as cell biology, molecular biology, genetics, genetic engineering, natural selection and ecology. Students should gain experience in critical thinking and an understanding of biological processes to be used in their everyday life activities.

CHEMISTRY (required grades 10-12) 1 Credit

Prerequisite: Successful completion of Algebra I & Physical Science

Students must take Chemistry or Food Science Chemistry to meet the Chemistry requirement. Students planning on going to a 2 or 4-year college should take this chemistry course to meet acceptance requirements. In Chemistry, students conduct laboratory investigations, use of scientific methods during investigations and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, trends of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. Students will need a scientific (either graphing or non-graphing) calculator.

FOOD SCIENCE CHEMISTRY (10-12) 1 Credit

Prerequisite: Successful completion of Algebra I & Physical Science

Students must take Chemistry or Food Science Chemistry to meet the Chemistry requirement. What does it take to develop a new food? How does food start in the field and end up on my plate? Food Science Chemistry is a class that will answer these questions and more. Topics covered include: new food product development, the chemistry and biology behind the foods we eat, the origins of popular food products and how they are marketed as well as new food technology and trends. This course is primarily hands on and is offered to meet the Chemistry requirement or a science elective credit.

FORENSIC SCIENCE (11-12) ½ Credit

This science elective course is designed to educate students about Forensic Science and its applications to real crime. Students will participate in several units of study, such as Crime Scene Processing, Code Breaking, Psychological Profiling, Fingerprints, DNA, Shoe Prints, Ballistics, Death, Anthropology, Toxicology and Accident Investigation. The semester will conclude with a lab-based final that utilizes many of the topics covered during the semester.

PHYSICS (10-12) 1 Credit

Prerequisite: Successful completion of Algebra I & Physical Science

In Physics, students conduct laboratory investigations, use scientific methods during investigations and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, conversion of energy and momentum, forces, thermodynamics, characteristics and behavior of waves, electricity, magnetism, nuclear and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues and develop critical thinking skills. Students will need a scientific (either graphing or non-graphing) calculator.

BIOTECHNOLOGY (11-12)**1 Credit****Prerequisite: Successful completion of General Biology**

This class is designed to give students a solid foundation in the principles, ethical issues and laboratory techniques of the rapidly growing field of science called biotechnology. Topics of study will include genetic engineering, forensics, stem cells, reproductive technology and food production. This class is appropriate for anyone considering a career in biology, medicine, agriculture, law enforcement or related fields

ENVIRONMENTAL SCIENCE (11-12)**1 Credit**

Environmental Science is designed to offer students a solid curriculum in current environmental biology concepts with primary focus on developing an awareness of the delicate balance of nature on Earth and the impacts of human activity. The class will identify and analyze environmental problems both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and preventing them. Topics include local river water monitoring, biodiversity, plant identification, ecology, water reclamation, population studies, pollution, soil studies, solid waste management, traditional and alternative energy, and sustainability. Several field trips are incorporated to allow students to study local environmental issues in the community.

AP BIOLOGY (11-12)**1 Credit****Prerequisites: Successful completion of Biology and Chemistry**

AP Biology is designed to be the equivalent of an introductory college level biology course. It differs significantly from high school biology with respect to the college level textbook, the range and depth of topics covered, the kind of laboratory work performed by the students, and the time and effort required of students. The AP Biology course is designed to be taken by students after the successful completion of high school biology and high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The AP Biology course topics include in depth studies of molecular genetics, cell biology, cell energetics, biochemistry, organism diversity, and ecology. The coursework is demanding and rigorous in preparation for the AP Biology exam in May.

**CIS HUMAN ANATOMY AND PHYSIOLOGY I (11-12)
(BIOL 2515 – Minnesota State College Southeast Technical)****College Credit/1 Credit****Prerequisite: Successful completion of Human Anatomy and Physiology**

Human Anatomy and Physiology I introduces the structure and function of the human body with an emphasis on normal health. This course includes a review of cellular biology, cellular transport, cell reproduction and basic biochemistry. Topics covered include histology, the integumentary system, skeletal system, articulations, muscular system, and nervous system.

**CIS HUMAN ANATOMY AND PHYSIOLOGY II (11-12)
(BIOL 2516 – Minnesota State College Southeast Technical)****College Credit/1 Credit****Prerequisite: Successful completion of BIOL 2515: Anatomy and Physiology I**

Human Anatomy and Physiology II continues the study of the human body from Human Anatomy and Physiology I. This course includes principles of chemistry, biochemistry, and molecular biology as they relate to the study of normal body function. Topics covered include the endocrine system, cardiovascular system, immune system, respiratory system, urinary system, digestive system, and reproductive systems.

COLLEGE CHEMISTRY (11-12)**1 Credit****Prerequisites: Chemistry and Algebra II**

College Chemistry builds understanding of the nature and reactivity of matter. After covering the structure of atoms, molecules, and ions, the course solves quantitative chemical problems and explores how molecular structure relates to chemical and physical properties. It examines the molecular composition of common substances and how to predictably transform them through chemical reactions. This course is the equivalent of an introductory college-level chemistry course.

COLLEGE PHYSICS (11-12)**1 Credit****Prerequisite: Successful completion of Physics and Calculus (or concurrently taking Calculus)**

This is the first of a two-semester physics course sequence (both lecture and lab) intended primarily for students majoring in the fields of engineering, agriculture education, computer science, physics, astronomy, chemistry and other physical science disciplines. This course is a college course taught concurrently with your high school class. You will earn a college grade and begin building a college transcript as well as earning a high school grade. Students will need a hard-sided 2-inch thick three ring binder and a scientific calculator.

~ SOCIAL STUDIES REQUIRED CLASSES ~**AMERICAN HISTORY I (required grade 9)****1 Credit**

American History 9 will examine United States history from exploration to 1900. Exploration, colonization, the American Revolution, the Constitutional Era, expansion, the Civil War, Reconstruction, the Gilded Age, late 19th century race relations and imperialism will be studied. Students will participate in role plays, simulations, computer generated lessons and projects and create a host of other historical products. A major focus will be on the analysis of primary sources and the writing of academic essays.

ECONOMICS AND FINANCE (required 10-12)**1 Credit**

Everyone loves money. You need to know the skills of saving, investing, and spending money. Learn how to build credit using credit cards or borrowing money from finance companies and evaluate different types of insurance and why and when you need them. Economic principles of supply and demand are reviewed and how they affect our lifestyle of spending and saving with opportunity costs.

AMERICAN HISTORY II: 1900'S TO PRESENT (required grade 10)**1 Credit**

American History 10 will examine United States history from 1900 to the present. The Progressive Era, World Wars, Roaring 20s and Great Depression, the Cold War, the Civil Rights movement and modern America will be studied. Students will participate in role plays, simulations, computer generated lessons and projects and create a host of other historical products. A major focus will be on the analysis of primary sources and the writing of academic essays.

SENIOR SOCIAL (required grade 12)**1 Credit**

This social studies course is for the 12th grader who has completed American History 9 and 10 and is necessary for graduation from CHS. This course will be broken into 4 parts. The first section will cover American Government. An emphasis will be placed on the Bill of Rights, Constitution, and civic responsibilities. Next, a brief overview of Economics will be examined; with a focus on supply and demand and our role in the economic cycle. Thirdly, we will examine the benefits of service learning and complete a service learning project. Finally, current controversial issues will be discussed. An emphasis will be placed on the impact of these events both as students and United States citizens.

WORLD HISTORY (required 11-12)**1 Credit****(10th graders must be approved by instructor and principal.)**

World History students will examine the role geography, individuals, and interaction between people influenced the history of our world. Content will include the study of ancient civilizations (500 CE to 1400 CE), global interactions (1400 CE to 1800 CE), revolutions (1775 CE to 1914 CE), and the modern era (1814 CE to present). Small group projects, technology use, reading skills and writing skills will be emphasized.

~ SOCIAL STUDIES ELECTIVES ~

COLLEGE EUROPEAN HISTORY (11-12)**1 Credit****(Students will take both part 1 and part 2 courses below in one semester for 6 “college” credits through Riverland Community College)**Part 1: History 1011 European History (Ancient to 1688)

This survey course explores European history from its origins to the “Glorious Revolution” of 1688 in England. The course will especially focus on the Greco-Roman roots of Western Civilization, the Medieval Period, the Renaissance and the Protestant Reformation. **(.5 High School Credit Social Studies)**

Part 2: History 1012 European History (1688-Present)

This survey course explores European history from the “Glorious Revolution” of 1688 in England to the present. It focuses on the political revolutions of the nineteenth-century, industrialism, imperialism, and the twentieth-century decline of European power. **(.5 High School Credit Social Studies)**

Course Objective:

This course is part of the College in the Schools program at Chatfield High School. The purpose of this program is to provide challenging and rigorous courses for students who are academically ready for higher-level classes while still in high school. Throughout these courses students will have an opportunity to earn both high school AND college credit. As such the objective of this class is to provide a course load that is engaging and challenging for students who have shown the interest and abilities to be successful at a more analytical and rigorous level in studying European History.

ADVANCED PLACEMENT (AP) PSYCHOLOGY (11-12) 1 Credit
(10th graders must be approved by instructor & principal)

Students will be introduced to basic concepts, terminology, and methods of psychology. Topics covered will include biological influences, development, learning, thinking intelligence, motivation, and perceptions. The course will prepare students for the Advanced Placement test in the spring.

POWERFUL WOMEN IN HISTORY (11-12) ½ Credit (one semester skinny)

This class will focus on women who impacted politics and culture over time. The class will start with a look at women in the past who defied cultural norms and society's reaction to them. Next, the class will focus and analyze individual women who held political power during time periods where that was uncommon. The last point of emphasis will be on modern day women who are currently impacting society. The course will mostly be taught as a research and project-based class.

HISTORY OF AMERICAN SPORTS (10-12) ½ Credit (one semester skinny)

This course analyzes sport by examining them as a major influence in our lives. Using the lenses of history, gender, and race the class will examine sports from different levels: professional, NCAA, scholastic, and youth to analyze and comprehend how athletics have impacted, and will continue to impact, America and American Culture.

CURRENT EVENTS AND ISSUES (10-12) 1 Credit

The goal of a current events course is for the student to become aware of the major issues of the day and to have an in depth understanding and appreciation of current events. The focus of the class will be issues that affect the student as a resident of the World, the U.S., Minnesota, and Chatfield. The class will follow daily news events and will be expected to understand the social, political and economic issues on a daily basis. The objectives of this course are: to make the connection between current events and history, to enhance the student's understanding of world events, to encourage students to be informed citizens, and to help them to make intelligent decisions as they take their place in the panorama of history.

~ TECHNOLOGY ~

MEDIA PRODUCTION (11-12) 1 Credit

Learn about television production and video editing in Media Productions! Students will learn about, and use, linear and non-linear video editing techniques, philosophies of good camera work, and the process of pre-production, production, and postproduction. Students will create a book videos, commercials and skits, with opportunity to make their own productions (such as music videos). Students will produce morning announcements for the senior high and will assist CCTV (local cable access TV) in production setup, camera work and producing duties. Additionally, students will have an opportunity to work with audio editing programs.

YEARBOOK (11-12)**1 Credit**

Students learn how to create, critique, insert pictures, and link web pages. Web pages will be created using HTML, Adobe Photoshop and possible other web page editing software. Students are responsible for the school's yearbook. These assignments include: ad sales, picture taking assignments, ad sales follow-ups, yearbook page setup, yearbook distribution, teamwork and are not limited to just these. Students will be required to use some after school time to complete the assignments. All of the previous are grade generating points for quarter grades. Students are required to participate in all of the assignments.

~ WORLD LANGUAGES ~

Spanish is offered in the World Language department. In our global society, there are compelling arguments for the study of languages. Most four-year colleges require prospective students to have taken two years of the same world language in high school. Further, the World Language department recommends that levels one and two of the chosen world language be taken consecutively, whether as blocks during fall and spring semester or as skinnies two years in a row. See the World Language instructor with questions about the World Language courses.

SPANISH I (9-12)**1 Credit**

In Spanish I students will gain basic skills of reading, writing, and speaking in Spanish. Class begins by learning the basics of introductory conversation, pronunciation, and grammar. We will go on to expand our abilities based around vocabulary units of school, family, sports and pastimes, travel, and clothing and shopping. At the end of Spanish I students will be able to read, write and talk in various present tenses and the past tense. Students will be able to have short conversations where they ask and answer questions about various planned topics. Students will also get a look into various cultural topics connected to each of the units of study.

SPANISH II (10-12)**1 Credit****Prerequisite: Spanish I**

In Spanish II students will build on the skills they acquired in Spanish I. Class will begin with a brief review of Spanish I and then expand to new units of study. Students will expand their vocabulary base to new areas such as daily routine, food, relationships and celebrations, body and health, technology and auto, and home. Students will further develop their skills in reading, writing and speaking in Spanish. This will be done with a focus on verb usage, and using Spanish spontaneously and without prompts. At the end of Spanish II students will be able to read, write and talk in all present and past tenses, as well as conditional, command, and future tenses. Students will be able to have spontaneous conversations about many topics and will be able to ask and answer questions about planned and unplanned topics. Cultural topics will be expanded and students will be prepared to continue Spanish courses at the University level.

SPANISH III (11-12)**1 Credit****Prerequisite: Spanish I & II minimum “B” average**

In Spanish III students will build on skills they acquired in Spanish I and II. Class will begin with a brief review of Spanish I and II and then expand to new units of study.

There will be a strong focus on reading, writing and speaking in Spanish at all times.

Students will greatly expand their vocabulary of verbs and their ability to use verbs in all verb tenses. Students will explore new vocabulary units with the ability to have a choice in the areas of study. Activities will be based around conversation and extended writing on topics of student interest. At the end of Spanish III students will be able to read, write and talk in all verb tenses at a university level. They will also be prepared to take college placement exams with the possibility of gaining college credits towards Spanish classes.