

# **Rush City High School**



**2024-2025  
Course Directory**

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**Students:**

Planning your selection of classes needs to be done in conjunction with your personal learning plan. You are encouraged to think about what you may do following graduation and how you can maximize the educational opportunities at Rush City High School. During your high school years you can explore several areas of interest, however, it is important to develop your talents and abilities that will provide you the background necessary to follow through with your plans after graduation from high school. In effect, the decisions you make now, to a large extent, determine what you will be able to do following high school.

**Parents:**

You are encouraged to discuss career options with your son or daughter and with their teachers and counselor. It is important to encourage exploration and investigations of alternatives, consistent with areas of interest, talents, abilities and career plans. Since you are your child's first and most influential teacher, your child's ideas about education and its significance begin with you. You must be an example of what you expect your children to honor and emulate. You have a responsibility to actively participate in your child's education and nurture those qualities that you deem important for success. You should encourage diligent study and discourage satisfaction with mediocrity. You should encourage good study habits and time management, encourage your child to take more demanding rather than less demanding classes. Nurture your child's curiosity, creativity, confidence and self-esteem. Your encouragement and approval or disapproval are critical to your child's success now and in the future. Be an active participant with school staff and support your son or daughter, the teaching staff, and others. You can contribute to ensuring the best preparation for the opportunities in your child's future.

In the registration process, all courses that are offered may not be provided due to minimum enrollment needed to offer a class. We intend to offer all classes where there is student interest, and if necessary we will rotate offerings in alternate years wherever students' interest can best be served. Also, please note that schedule requests are only "requests"; students will get the courses needed for graduation.

We at Rush City High School request your involvement in your son's or daughter's registration for the next school year and as tentative plans are made for the future. We will not accept a registration without a parental signature. Take some time to discuss and choose a career path and the appropriate courses with your student. If you have any questions, please feel free to contact the school counselor or principal.

We are confident that if parents, students, and school personnel work together, students will not only have an interesting, rewarding, and enjoyable experience, but a learning environment that will be one of the very best that can be found anywhere.

Rush City Schools are large enough to provide a comprehensive curriculum and extracurricular program, but small enough so that all students have an identity and can explore the development of their talents and abilities.

Rush City Public Schools ISD #139 does not discriminate on the basis of race, color, nationality, origin, sex or disability.

***"THE PROMISE OF RUSH CITY SCHOOLS IS TO CREATE GLOBAL CITIZENS WHO ARE LIFELONG LEARNERS"***

## REGISTRATION GUIDELINES

1. This curriculum registration guide was prepared to aid parents and each student to plan a selection of studies that best fits his or her individual needs, whether he/she plans to go to college, business, technical, vocational training or enter the world of work upon graduation from high school. Careful planning is essential since changes will be very difficult to make once school closes this spring. Study this information thoroughly so you can select your courses intelligently. Changes will be allowed only when you are notified by the counselor that you have a conflict of classes.
2. To complete your registration, you should discuss your career plans and courses with your parents, teachers, counselor and people in the occupational field(s) you are considering. It is important to plan a sequence of courses that may be required or are recommended for your future career choices.
3. All students are required to register for seven classes.
4. With several single section electives and the alignment of the master schedule, there may be unresolvable conflicts. However, every effort will be made to schedule the classes you choose.
5. Some elective classes will not be offered if there is insufficient enrollment. Therefore, alternative choices are required in the registration process.
6. Course changes may be made only until the end of the first week of each semester. Course changes are not guaranteed and will be considered for the following reasons only: 1) Prerequisite has not been met. 2) Student has already received credit for this class(es). 3) Student needs to replace an elective with a required class. 4) Schedule Error: Student has too many classes, not enough classes, or 2 classes during the same hour. No dropping of courses will be permitted after that time unless special circumstances necessitate a course change. ITV courses cannot be changed after August 1st.
7. Students who want to drop a year-long elective course may do so only at the end of the first semester and under extreme circumstances as determined by the teacher, parent and counselor/principal.
8. Complete the registration form numbering all the classes for which you wish to register with #1 being your most wanted class and #99 being least wanted.
9. Each student must take the required classes for their particular grade level. Those are listed following the introduction. You may then elect other courses from this registration booklet, keeping in mind the prerequisites for those courses and the grade levels that they are suggested for. The registration form must be completed with the classes the student is requesting as WELL AS ALTERNATE SELECTIONS. If you are unable to get some of your primary requests because of scheduling conflicts, substitutions will be selected from the alternate list-so choose carefully.
10. When registering, you are reminded to look closely at when the class will be offered again. In some cases, classes are offered only every other year. In those situations, if you plan on taking the class, you must be sure that it will be offered again before you graduate, if you do not register for it this coming school year.
11. Post high school education programs all have certain requirements for entrance into their particular programs. Students interested in these programs must reach out to the college they are interested in.
12. Students must meet certain requirements to get into a study hall: #1 Student must be on an IEP, 504 plan, taking 2 or more college classes, student advocacy submission with the school counselor or a teacher recommendation through an MTSS Referral. #2 Students must also be utilizing their study hall.

13. Jr's & Sr's will be limited to 1 of the following: Peer Tutoring or Teacher's Aide.
14. No student will be denied entrance to a course on the basis of sex, race, or religion. However, some classes may not be available because of size, prerequisites or scheduling problems. If you do not get the classes you have registered for as a sophomore or freshman do not be overly concerned. You will have further opportunities to get those classes. Every effort is made to ensure that students registering for their senior year have received the courses that they need first, then juniors, followed by sophomores and finally the freshman.

## REQUIREMENTS FOR GRADUATION FROM RUSH CITY HIGH SCHOOL

### **\*\*9th Grade\*\***

**All Freshmen are required to take the classes listed below:**

<b>Full Year SOCIAL STUDIES</b>	Civics 9 (.5 cr.)	Economics 9 (.5 cr.)
<b>Full Year ENGLISH</b>	English 9 (1 cr.)	
<b>Full Year SCIENCE</b>	Physical Science 9 (1 cr.)	
<b>Full Year MATH</b>	Intermediate Algebra (1 cr.)	Geometry (1cr.)
	(teachers will place you in the correct math class for you)	
<b>Full Year PHY.ED</b>	PE 9 (1 cr.)	
Choose up to 2 hours of electives		

### **\*\*10th Grade\*\***

**All Sophomores are required to take the classes listed below:**

<b>Full Year SOCIAL STUDIES</b>	American History 10 (1 cr.)
<b>Full Year ENGLISH</b>	English 10 (1 cr.)
<b>Full Year SCIENCE</b>	Biology (1 cr.)
<b>Full Year MATH</b>	Geometry (1cr.) Advanced Algebra (1 cr.)
<b>1 Sem. HEALTH</b>	Health 10 (.5 cr., 1 Sem.)
Choose up to 2.5 hours of electives	

### **\*\*11th Grade\*\***

**All JUNIORS are required to take the classes listed below:**

<b>Full Year SOCIAL STUDIES</b>	World History 11 (1 cr.)	College World History 11 (1 cr.)
<b>Full Year ENGLISH</b>	English 11 (1 cr.)	College English Prep (1 cr.)
<b>Full Year SCIENCE</b>	Physics (1 cr.)	Chemistry (1 cr.)
	Advanced Biology (1cr.)	Biology (1cr.)
<b>Full Year MATH</b>	Advanced Algebra (1 cr.)	Pre-Calculus (1 cr.)
	College Algebra (.5 cr.) & College Trigonometry (.5 cr.)	
Choose up to 3 hours of electives		

### **\*\*12th Grade\*\***

**All SENIORS are required to take the \* classes listed below:**

<b>Full Year SOCIAL STUDIES*</b>	American Government/Social Problems (1cr.)
<b>Full Year ENGLISH*</b>	English 12 (1 cr.)
	College Composition
Prerequisite to receive college credit: Teacher/Dept.recommendation required.	

(1 cr.) College Intro to Communications

Prerequisite to receive college credit: Teacher/Dept. recommendation required.

(.5 cr.) College English Prep (1cr.)

Choose up to 5 hours of electives

**\*\*1 Fine Art or CTE credit is required for graduation.** Includes dance, media arts, music, theater, visual arts and CTE classes.

**Minnesota Graduation Requirements are as follows:**

- \* 4 credits of language arts sufficient to satisfy all of the academic standards in English language arts.
- \* 3 credits of mathematics, including a Geometry credit, an Algebra II credit or its equivalents, and one math elective credit sufficient to satisfy all of the academic standards in mathematics.
- \* 3 credits of science, including at least one credit of biology, one credit of chemistry or physics, to satisfy all chemistry or physics standards, and all other science standards.
- \* 3.5 credits of social studies, encompassing at least United States history, geography, government and citizenship, world history and economics sufficient to satisfy all of the academic standards in social studies.
- \* 1 credit of the arts or CTE sufficient to satisfy all of the state or local academic standards.
- \* 7 elective credits minimum

**Total Credits Required to Graduate = 21.5**

**MINNESOTA STATE UNIVERSITY SYSTEM/ HIGH SCHOOL PREPARATION REQUIREMENTS**

WHAT HIGH SCHOOL COURSES ARE REQUIRED FOR ADMISSION TO A MINNESOTA STATE UNIVERSITY? The following pattern of courses must be completed in grades 9-12 by students seeking admission to a Minnesota State University:

**English:**

Four years (including composition, literature and speech)

**Math:**

Three years (including two years of algebra, of which one is intermediate or advanced algebra, and one year of geometry). Many universities now require four years of math for example all University of Minnesota Universities.

**Science:**

Three years (including one year each of a biological and physical science, all with significant lab experience. Must also have chemistry or physics. May choose from the available options).

**Social Studies:**

Three years (including one year each of geography and US history).

**Other:**

Two years of a single foreign language, one year of arts (visual arts and the performing arts of theater, music, dance and media arts).

## **RUSH CITY CORE CLASS REQUIREMENTS**

### **SOCIAL STUDIES REQUIREMENTS**

#### **AMERICAN CIVICS/ECONOMICS**

1 year (required)  
.05 credit per Semester  
Grade 9

The American Civics course provides a detailed background for understanding U.S. citizenship skills as well as the foundations and operations of each branch of our government system. This class will encourage civic participation by the students and prepare them to be informed, responsible citizens.

The economics course focuses on the basic principles of economics including supply & demand and consumer spending. The students will also learn how a business operates and how countries work to control their respective economies and its impact on the world market.

#### **AMERICAN HISTORY**

1 year (required)  
.05 credit per Semester  
Grade 10

American History traces American history from before Columbus to the present. This study was organized under the theme in the textbook.

Students will study the course of American History dating back before Columbus all the way to present times, looking in depth into major conflicts in our history.

#### **WORLD HISTORY / GEOGRAPHY**

1 year (required)  
.05 credit per Semester  
Grade 11

This course is a study of history from ancient times to the present. This class will focus on major themes, turning points and changes throughout history in continents other than North America. Areas and events studied include ancient civilizations, Asia, Africa and Europe in the middle and modern ages. Topics and themes that will be covered are revolutions, politics, war, and culture. The relationships between world events and geography will be explored.

#### **Or COLLEGE WORLD HISTORY**

1 year  
.05 credit per Semester  
4 College Credits - Anoka-Ramsey Community College  
(for whole year – must complete the full year in order to receive college credit)  
Grade 11

Concurrent Enrollment Course: Anoka Ramsey Community College: Cambridge & Coon Rapids

HIST 1141 Ancient and Medieval World Civilizations is a survey of human prehistory, the agricultural revolution, the rise and fall of civilizations in Africa, Asia, the Americas and Europe from ancient times through the medieval period. This course will survey topics and themes concerning the areas and times above while

increasing all levels of historical skills including reading, writing, interpreting and analyzing many readings and historical documents.

### **AMERICAN GOVERNMENT**

1 semester (required)

.05 credit

Grade 12

This course focuses on a more in-depth look into our federal government with examinations of the constitution and internal structure of the federal system. A comprehensive investigation of the political parties and elections is also covered during the semester.

### **SOCIAL PROBLEMS / SOCIOLOGY**

1 semester (required)

.05 credit

Grade 12

A study of current social, economic, and political problems that concern Americans as people. Such examples of social problems discussed include discrimination and poverty/homelessness. Students will examine the complex nature of social problems and learn about origins as well as potential solutions. To promote awareness of social problems, a community service component is required for this course.

## **ENGLISH REQUIREMENTS**

### **ENGLISH 9**

1 Year (required)

.05 Credit per Semester

Grade 9

English 9 is aimed to use and build on skills learned in middle school to prepare students for English classes in high school and beyond. These skills include but are not limited to reading and comprehension, higher level thinking and independent problem-solving, vocabulary development, research, and public speaking.

### **ENGLISH 10**

1 Year (required)

.05 Credit per Semester

Grade 10

English 10 is designed to help students improve their oral and written communication skills as well as understand and appreciate a wide variety of literary forms. Students will read and analyze both classic and contemporary short stories, poetry, historical fiction, young adult literature, memoir, and Shakespearean drama. Instruction in the class also focuses on preparing students for research tasks they will encounter in future classes and on developing independent learning skills. This is the essence of the I-Search project—questioning, locating, analyzing, evaluating, and communicating.

### **ENGLISH 11**

1 Year

.05 Credit per Semester

Grade 11



English 11 is focused on American literature (focusing on areas of short stories, historical documents, drama, poetry, and novels) as well as post-secondary skills, for both college and the workplace. These skills include but are not limited to reading and comprehension, higher-level thinking and independent problem-solving, vocabulary development, research, and public speaking.

### **OR COLLEGE ENGLISH PREP**

1 Year

.05 Credit per Semester

Grade 11 - 12

11th-grade students may take this course as a prerequisite for College Composition.

12th-grade students may take this course to help prepare for college.

College English Prep will introduce to the college-bound students advanced techniques of essay writing, including critical analysis of literature, and the basic five-paragraph essay in detail, as well as a review of the mechanics of English. Readings will include novels and essays from American and English literature. Vocabulary and reading comprehension skills are emphasized throughout the year. Students will also write a well-documented analysis paper; in addition, students will learn to properly cite material and put together a works cited page in MLA format. Early second semester skills will focus on the components of the Reading, English, and Writing portions of the ACT test. Critical thinking will be stressed along with continued emphasis on mechanics and reading and writing skills.

### **ENGLISH 12**

1 Year

.05 Credit per Semester

Grade 12

English 12 is focused on British literature (focusing on areas of drama, poetry, and novels, as well as understanding the historical perspective) as well as post-secondary skills, for both college and the workplace. These skills include but are not limited to reading and comprehension, higher-level thinking and independent problem-solving, vocabulary development, research, and public speaking.

### **OR COLLEGE COMPOSITION**

1 Semester

1 High School Credit for Year-blocked class

4 College Credits for Semester (Pine Technical & Community College)

Prerequisite to receive college credit: Teacher/Dept. recommendation required.

Grade 12

Students will learn the process of writing their ideas for an audience. The course will focus on the generation, organization, and communication of ideas in expository essay forms based on experience, observation, and research, with an emphasis on argumentation, critical thinking, and rhetorical strategies. Mechanics and writing style will also be integrated throughout the course. In addition, the course will provide extended practice in critical reading, writing, and thinking to explore ways to sharpen critical thinking skills. Concentration will be on library and empirical research methodology with an emphasis on finding, evaluating, and synthesizing various sources of information.

### **OR COLLEGE ENGLISH PREP (see grade 11)**

## **MATHEMATICS REQUIREMENTS**

### **INTERMEDIATE ALGEBRA**

1 year

.05 credit per Semester  
Grades 9-12

Since Algebra involves a great deal of arithmetic, the student planning to take this course should be proficient in the basic operation of arithmetic. This course begins with a review of linear functions, then moves on to study polynomials, and nonlinear functions. As part of the Algebra sequence it provides a language and system of reasoning which serves as a basis for the study of higher math courses. Prerequisite to the course is the completion of 8th grade Algebra 1. (Staff will counsel students into the course). Students need to have a scientific calculator.

## **GEOMETRY**

1 year  
.05 credit per Semester  
Grades 9-12

Geometry is one of the oldest known branches of mathematics. It is the study of properties of figures composed of points and lines. Various areas in plane and solid geometry are studied, plus introducing to the student the methods of coordinate geometry in which both algebra and geometry complement each other. Probably one of the most important values geometry has for the student is in the experience provided them wherein the student must build a logical system of thought in problem-solving. This course is intended for students who desire to expand their mathematical abilities by exploring new ideas/relationships. Any student taking this course should consider taking a math course each year for the remainder of their high school career. To be eligible for geometry in the 9th grade, you must meet the three requirements from Algebra I. Students need to have a scientific calculator.

## **ALGEBRA II**

1 year  
.05 credit per Semester  
Grades 10-12  
Prerequisite: Intermediate Algebra and Geometry

This course is a continuation and expansion of Algebra. It is also required that geometry be completed before you enroll in this course. A graphing calculator is strongly encouraged for this course- talk to the math teachers about the best one. Special emphasis is placed on the techniques of problem solving. Various techniques are shown to the student for handling exponents, quadratics, systems and equations, irrational and imaginary numbers and graphs.

## **PRE-CALCULUS**

1 year  
.05 credit per Semester  
Prerequisites: Advanced Algebra, Intermediate Algebra, Geometry  
Grades 11 -12

This class is separated into two semesters and is designed for students who need to solidify their knowledge of functions and statistics before entering a college/upper level mathematics course. This course is for juniors and seniors only. First semester is focused on functions (linear, quadratic, polynomials, exponentials, etc). Second semester is focused on financial math, trigonometry, probability, and statistics. The purpose for this class is to solidify mathematical concepts involving functions and statistics, with a bonus piece on financial math.

## **COLLEGE ALGEBRA**

1st Semester  
.75 credit  
3 College Credits through Pine Technical and Community College

Prerequisite: Advanced Algebra & Geometry,  
Prerequisite to receive college credit: Teacher/Dept. recommendation required.  
Grades 11-12

This course is designed for students planning a post-secondary education. The students will be offered an opportunity to receive credit from a community college while taking this college-level course. This course presents the student with solution methods and applications of linear, quadratic, rational and radical equations, basic complex numbers, functional graphs and transformations, polynomial and rational functions, exponential and logarithmic functions, and systems of equations and inequalities.

### **COLLEGE TRIGONOMETRY**

2nd Semester

.05 credit

Prerequisite: College Algebra

Prerequisite to receive college credit: Teacher/Dept. recommendation required.

Grades 11-12

This course is designed for students planning a post secondary education. The students will be offered an opportunity to receive credit from a community college while taking this college level course. This course introduces the concepts of trigonometry functions through both right-angle and unit circle approaches, and their inverse functions. Course content presented will include properties, graphs and identities, law of sine and cosine, and equation solution methods. In addition, other topics in the course include complex number, polar coordinate system, conic sections and basics of vector analysis.

### **COLLEGE CALCULUS**

1 year

1.25 credit

Prerequisite: College Algebra & College Trigonometry

Prerequisite to receive college credit: Teacher/Dept. recommendation required.

Grade 12

This course is designed for students planning a post-secondary education. The students will be offered an opportunity to receive credit from a community college while taking this college-level course. This is the first course in the two-semester sequence of Single Variable Calculus. Topics include functions of a single variable, limits and continuity, differentiation, anti-differentiation, and integration of algebraic and transcendental functions with associated applications in each area. Instruction will be provided in the use of a scientific calculator. MnTC goal area #4.

### **FUNCTIONS STATISTICS**

1 year

.05 credit per Semester

Prerequisites: Algebra, Intermediate Algebra, Geometry

Grade: 12

This class is separated into two semesters and is designed for students who need to solidify their knowledge of functions and statistics before entering a college/upper level mathematics course. This course is designed for seniors only. First semester is focused on functions (linear, quadratic, polynomials, exponentials, etc). Second semester is focused on financial math, probability and statistics. The purpose for this class is to solidify mathematical concepts involving functions and statistics, with a bonus piece on financial math.\*With many Universities requiring 4 years of High School Math, this class is an excellent opportunity to stay current with your math skills.

## **SCIENCE REQUIREMENTS**

### **EARTH SCIENCE 9**

1 year (required)

.05 credit per Semester

Grade 9

Earth Science 9 is a general science class with no need for previous science background. The purpose of this course is to help students obtain understanding of force, motion, energy, and the properties of matter. This understanding will be achieved by student-performed experiments and teacher demonstrations as well as classroom discussions.

Topics covered in the class include: Volume and mass, Mass changes in closed systems, Characteristic properties, Solubility, The separation of mixtures, Compounds and elements, Forces, Pressure, and Velocity

### **BIOLOGY**

1 year (required)

.05 credit per Semester

Grades 10-12

Biology is the study of living things. This course includes the following areas of study: ecology, anatomy, taxonomy, physiology, genetics and evolution. The methods of study of the course will be through class work, class discussions, audiovisual presentations, projects, lab work, including dissections and work with microscopes. Evaluation of student's progress will be made on a regular basis on the class work and laboratory work.

A background in biology may be valuable to:

Fulfill entrance requirements for college, Have a better understanding of the world we live in. Understand how and why the human body works.

### **CHEMISTRY**

1 year (required)

.05 credit per Semester

Grades 11-12

Chemistry is the science of the structure and composition of materials and the changes in composition of materials. Topics covered include: Atomic structure and its relationship to chemical properties, The periodic relationship of the elements, Chemical composition and bonding, Chemical reactions, The physical states of matter - gas laws - molecular composition, Solution chemistry - ionization, acids, bases, salts, Frequent laboratory sessions offer the opportunity to develop basic lab skills.

A high school experience in chemistry may be valuable to: Fulfill an entrance requirement to a college or nursing school, Anyone who wishes to pursue a scientific or technical study after high school. (Physics, Biology, Geology, etc.), Anyone who wishes to expand their understanding of the physical environment, Improve usage of Math and English.

Benefits of the class include improvement of accuracy, and logical thought, and the opportunity to work with more demanding material as preparation for post-high school education.

### **APPLIED CHEMISTRY**

1 Year, Offered Bi-Yearly 2025-2026

.05 Credit Per Semester  
Grades 11-12

In this course we will be using the scientific method to learn more about the food that we eat. Through many labs and hands-on projects, we will discover the chemical processes that take place in all aspects of our food production from seed to processing plants. We will discover the many career paths that travel through food as it is grown, harvested, processed, packaged, and stored.

### **PHYSICS**

1 year,           Offered Bi-Yearly 2024-2025  
.05 credit per Semester  
Grades 11-12

Physics is the physical science which deals with the relation between matter and energy. The goal of physics is to use a small number of basic concepts, equations, and assumptions to describe the physical world. In this physics class the following topics will be covered: Motion in one and two dimensions, Forces, Work and Energy, Momentum, Circular motion and gravitation, Fluid Mechanics, Heat, Thermodynamics, & Waves. Along with discussion on these topics in class, students will engage in meaningful lab exercises that allow them to experience these concepts and how they relate to students' lives. Because problem solving is a large part of physics, students with a limited background in math may have difficulty in this class.

### **ADVANCED BIOLOGY**

1 year           Offered Bi-Yearly 2025-2026  
.05 credit per Semester  
Grades 11-12  
Prerequisite: Passing grade in Biology

This course is designed to move beyond the introductory science courses to explore topics in greater detail. The methods of study of the course will be through classwork, projects, lab work, including dissections and work with microscopes. Evaluation of student's progress will be made on a regular basis on the classwork and laboratory work. The outcomes that will be covered in this course include the following: Understand the history of biology, Understand the components of the six kingdoms, such as bacteria, protists, fungi, plants, and animals, Understand the processes on how life forms have evolved from single-celled organisms to humans Have knowledge of plant and animal life in our area.

## **PHYSICAL EDUCATION / HEALTH REQUIREMENTS**

### **PHYSICAL EDUCATION 9**

1 year (required)  
1 credit  
Grade 9

Physical Education 9 provides a full-year physical education class for the ninth grade students of Rush City Public Schools. The goal of the class is for students to attain the appropriate knowledge and skills necessary for them to live a healthy, active lifestyle. The knowledge and skills that the students will learn will help them towards being physically active for their entire lifetime.

### **HEALTH 10**

1 semester (required)  
.05 credit  
Grade 10

This course provides a one-semester health education class for the tenth grade students of Rush City Public Schools. The goal of the class is for students to attain the appropriate knowledge and skills necessary for them to live a healthy, active lifestyle. The knowledge and skills that the students will learn will help them make their own informed, educated decisions in regards to their own personal health, and the health of the community they live in.

## **GENERAL ELECTIVE COURSES**

### **WORLD LANGUAGES (More Options Below in ITV)**

Many colleges and universities have foreign language requirements for acceptance or graduation. Students wishing to take a foreign language should be aware that it is a college preparation course.

#### **SPANISH 1**

1 year, 1 credit

Grades 9-12

This course is the student's first exposure to Spanish at Rush City High School. The purpose of Spanish 1 is to introduce students to basic skills of Spanish, emphasizing oral communication. Reading, writing, and listening skills will also be developed. Students will learn many of the cultures of the Spanish speaking world. The class includes group and pair oral work, journal and other writing, oral presentations and use of audiovisuals (for development of oral skills). The content includes basic vocabulary, grammar and culture. Some topics covered during the course include making introductions, school, family, foods, housing, and likes/dislikes.

#### **SPANISH 2**

1 year, 1 credit

Grades 10-12

Spanish 2 is a continuation of Spanish 1. Students will reach an intermediate level of speaking, reading, writing and listening in Spanish. The students will increase their understanding of Hispanic culture. Communication is emphasized. The course includes a review of material covered in Spanish 1, group/pair oral work, written work, short story reading, and cultural activities. The content contains intermediate vocabulary, grammar, and culture. Some topics covered during the course include travel, daily routine, childhood activities, shopping, restaurant/cooking.

#### **SPANISH 3**

1 year, 1 credit

Grades 11-12

Spanish 3 is an advanced Spanish course which continues Spanish 2. The course reviews basic material and introduces students to more advanced grammar concepts. The emphasis on communications, culture, and comprehension remains. The class will include oral and written work, audiovisual aids, group/pair work, and presentations. The content includes culture and intermediate to advanced vocabulary and grammar concepts. Some topics covered during the course include environment, careers, future plans, and vacations. Students will also read and analyze short stories in Spanish throughout the year. Field trips may be offered depending on the opportunities available.

### **COLLEGE SPANISH**

1 year

.05 credit per Semester

3 college credits (must be taken a full year to earn credit through Pine Technical and Community College)

Grade 12

Prerequisite to receive college credit: Teacher/Dept. recommendation required.

Spanish 4 is an advanced Spanish course which continues Spanish 3. More emphasis will be on writing and reading Spanish than in previous years. Aside from building on previous vocabulary and grammar concepts taught in Spanish 1-3, some topics covered during Spanish 4 include ancient civilizations, famous Hispanics, history, literature, and art. Students will also spend time studying Spanish speaking countries more in depth. Field trips may be offered depending on the opportunities available.

## **MUSIC ELECTIVES**

### **WIND ENSEMBLE**

1 year  
.05 credit per Semester  
Grades 8-12  
Audition Only

The Wind Ensemble is the advanced instrumental music course at Rush City High School. Placement in this ensemble is by audition only. Students interested in Wind Ensemble must register for Concert Band, then after the spring auditions, selected students will have their registration moved to Wind Ensemble. In this course, students will perform a variety of modern and classical band literature, and perform a minimum of three concerts per year. Students in Wind Ensemble are also participants in Pep Band and Marching Band, and may also participate in Jazz Band.

### **CONCERT BAND**

1 year  
.05 credit per Semester  
Grades 8-12

The Concert Band is the instrumental music course open to all Rush City students grades 8-12. No audition is required to participate in this course. In this course, students will perform a variety of modern and classical band literature, and perform a minimum of three concerts per year. Students in Concert Band are also participants in Pep Band and Marching Band, and may also participate in Jazz Band.

### **CONCERT CHOIR**

1 year  
.05 credit per Semester  
Grades 9-12

The Concert Choir is open to all students in grades 9-12. There is no audition requirement. This choir performs three formal concerts per year. In addition, the Concert Choir performs at the Homecoming Coronation, Minnesota Honor Society Induction Ceremony, the Minnesota State High School League Two Rivers Conference Large Group Contest, High School Commencement Ceremony and other shorter programs. The Concert Choir performs a wide variety of choral music. Members may participate in the All-Conference Honor Choir Festival conducted by the Minnesota State High School League Two Rivers Conference and perform solos or with small ensembles during concerts and at solo and ensemble contest(s). Each choir member may receive two individual voice lessons each quarter. These lessons may be scheduled prior to school or during a specified class period. The Concert Choir studies once a week with a college professor of voice supported by a Legacy Amendment Grant. Members of the Concert Choir are eligible for nomination to receive high school letters pursuant to standards set-forth in the Vocal Music Handbook.

Students in grades 9 through 12 may audition for the Vocal Jazz Choir. This elite vocal ensemble performs music primarily from the American jazz tradition. Members of this competitive small ensemble are eligible for nomination to receive high school letters.

## **CTE - AGRI-SCIENCE/INDUSTRIAL TECHNOLOGY ELECTIVES**

### **CTE - SMALL ENGINES MAINTENANCE & REPAIR I**

1st Semester

.05 credit

Grades 9-12

This course is designed to give students the skill and knowledge to enter the small engine industry. This course also gives the basic information needed in the Ag Power course. The major units included in the course are career and education opportunities, shop layout and safety, principles, operation, maintenance, and repair of 2 and 4 stroke engines. Much of this course is in the shop so that the students have an opportunity to practice what they learn in the classroom on actual engines. This course is an excellent opportunity for those people interested in the small engine industry or those that want these skills for their own home use.

### **CTE - SMALL ENGINES II**

2nd Semester

.05 credit

Grades 9-12

Prerequisite: Small Engines I

This course is designed to acquaint the student with the basic principles, operation, maintenance, and repair of single-cylinder and multi-cylinder engines and electric motors. The course is for those students who are thinking of a career in mechanics or those that want to improve their mechanical skills for their own use. Units in the various areas will have a balance of classroom and shop activities for the overall hands-on learning.

### **CTE - SMALL AND DOMESTIC ANIMAL SCIENCE I**

1st Semester

Offered Bi-Yearly 2025-2026

.05 credit

Grades 9-12

This course is designed to acquaint students with the management and care practices associated with small and domestic animals. The course focuses primarily on the study of animals that most people (from city or farm) deal with on a regular basis. Major units of study include dog care, cat care, horse science, rabbit care, and other various pet care studies. Care studies include selecting, feeding, breeding, training, and general health of the animals being studied. This course will greatly interest animal and pet owners, horse enthusiasts, and general animal lovers.

### **CTE - SMALL AND DOMESTIC ANIMAL SCIENCE II**

2nd Semester

Offered Bi-Yearly 2025-2026

.05 credit

Grades 9-12

This course is designed as a supplement to small and domestic animal science. The emphasis will be placed more in grooming, training, health care and cover some general care of species not already covered such as rabbits, hamsters and tropical fish. The course will be taught with as much hands-on experience as possible. This course is an excellent start for those students wanting to enter a career in animal science and/or training.

### **CTE - LARGE WILDLIFE MAMMALS/NATURAL RESOURCES**

1st Semester

Offered Bi-Yearly 2024-2025

.05 credit



## Grades 9-12

This course is designed to acquaint the students with the skills and knowledge needed by workers in many areas of conservation and natural resources. The course will focus on the following areas: environmental concerns, historical developments, populations, harvest and post-hunt management of large mammals in Minnesota. Course emphasis will be placed on the management principles and practices associated with each of these areas and along with the career and educational opportunities available to the students. The students will have a balance of classroom and laboratory experiences available to achieve as much hands-on learning as possible.

### **CTE - HOT AND COLD METALS TECHNOLOGY**

1st Semester

.05 credit

Grades 9-12

Industrial technology in this course stresses metalwork as applied to the structure of industry and its related associations. Welding including arc, and oxyacetylene along with practice applications, basic machine tool, sheet metal, and foundry areas are also explored.

### **CTE - ADVANCED METAL TECHNOLOGY**

2nd Semester

.05 credit

Grades 9-12

Prerequisite: Hot and Cold Metals Technology

This semester course will cover advanced work in the metals area. We will explore the machine tool area in more depth, study blueprint reading skills, and work on computer numerical control milling and CNC lathe work. Advanced welding processes (wire feed and heil-arc welding) will also be included.

### **CTE - DRAFTING**

1st Semester

Offered Bi-Yearly 2024-2025

.05 credit

Grades 9-12

This course is designed to introduce the student to the area of basic drafting and drafting processes. Topics that will be introduced include the theory of drafting, lettering dimensioning, isometric views, 3-dimensional views, and instruments used in the drafting process. Students will also use drafting equipment to create various drawings.

### **CTE - WOOD TECHNOLOGY I**

1st Semester

.05 credit

Grades 9-12

This semester course will include the study of basic design principles related to furniture construction, materials used in construction, and a unit on basic drawing. Each student will be required to build a project of their own design or from a prepared plan.

### **CTE - WOOD TECHNOLOGY II**

2nd Semester

.05 credit

Grades 9-12

Prerequisite: Wood Technology I

This course is a continuation of Wood Tech I with the major emphasis on designing and building a major woodworking project.

### **CTE - FABRICATION**

2nd Semester

.05 credit

Grades 10-12

Prerequisite: Advanced Welding

This hands-on course provides students with the opportunity to apply their skills in wood and metal fabrication for project construction. Other skills include oxy-acetylene welding and cutting, plasma cutting, arc welding, gluing, and fastening woods. Students will receive instruction in safety, planning, hand and power tool usage and selecting materials. Students will be using their own ideas and methods in the design and fabrication of a wood and/or metal project.

### **CTE - CABINETRY**

1st Semester

Offered Bi-Yearly 2025-2026

.05 credit

Grades 10-12

Prerequisite: Wood Tech I

This project-oriented course provides students with experience in constructing cases, cabinets, and other interior woodwork. Students will use various woodworking machines and power tools for cutting and shaping wood. This course will cover the different methods of joining pieces of wood, how to use mechanical fasteners, reading a working drawing, and safely using hand and power tools.

### **CTE - HOME MAINTENANCE**

2nd Semester

Offered Bi-Yearly 2024-2025

.05 credit

Grades 9-12

This course is designed to give students the skill and knowledge to make minor repairs on homes, lawn equipment, and automobiles. Areas covered include, but are not limited to, plumbing and electrical repair, floor and wall repair, landscape design, lawn maintenance, auto, and lawn mower maintenance. Students will be taught how to use tools safely, plus gain a practical understanding of how basic materials are used around the home and car. Home Maintenance is a class influenced mainly by student participation and effort.

## **CTE - ART ELECTIVES**

### **CTE - CERAMICS**

1st Semester

.05 credit

Grades 9-12

This class is designed to teach the basic properties of clay. You will gain an understanding of the stages of clay including leather-hard, green-ware, bisque-ware and glaze-ware. Students will also gain knowledge of materials used in creating three-dimensional works of art with low-fire white clay and assorted glazes. Students will learn pinch, slab, coil, wedging, slipping and scoring, basic glaze mixing, and other hand-building

techniques as well as an introduction to the wheel-throwing techniques and processes. Students will create projects ranging from masks to instruments and many things in between.

### **CTE - ADVANCED CERAMICS (Pottery)**

2nd Semester

.05 credit

Grades 9-12

Prerequisite: Ceramics

In this class students will further explore the potter's wheel. Students will also have an opportunity to explore independent projects. Students will create mugs, cups, bowls, plates. As well as assorted hand building projects. During the course of the semester students will be expected to explore different glazing techniques as well as advanced surface decoration.

### **CTE - DRAWING**

1st Semester

.05 credit

Grades 9-12

Students will be using a variety of material including charcoal, pastels, colored pencils, pen and ink, and graphite pencils. They will experiment with a variety of erasers and "smudgers". The goal is for students to come away with new ways to see and record what is around them. Students will be introduced to gesture drawing, and a number of techniques for figure drawing. Students will be expected to keep a sketch journal, which will include writings, drawing and artist's statements.

### **CTE - PAINTING**

2nd Semester

.05 credit

Grades 10-12

The emphasis of this class is learning techniques for manipulating paint on paper and canvas. We will explore acrylic, watercolor, and oil paints.. Students will learn how to build canvases, utilize gesso and underpainting to enhance works. We will also study painters and the techniques they use(d). The use of color and its symbolism will be studied as well as the elements and principles of design. Students will also be expected to add meaning to their works through artist's statements.

### **CTE - GRAPHIC DESIGN I**

1st Semester

.05 credit

Grades 9-12

Graphic Design and Marketing is a course that will offer students the ability to combine artistic and business ambitions with real world application. In the graphic design portion of the class, students will learn how to create effective advertising compositions, with units focusing on typography, photography, and the principles of design. Students will also study the design strategies of real companies active in the world of marketing. Projects will involve basic program skill exercises, photography and photo editing, a mock cd album/cd cover design, movie cover, and a capstone group project where students will create a company image for a mock client. To accomplish this, students will learn how to use programs such as Photoshop, Illustrator, and Indesign. We will incorporate basic Marketing skills by creating basic flyers to portfolios of businesses. While using the Five P's of marketing and bringing in guest speakers to help students understand the world of business and how advertising works. There is a huge demand for people interested in this career field.

## **CTE - GRAPHIC DESIGN II**

2nd Semester

.05 credit

Grades 9-12

Prerequisite: Graphic Design I

Graphic Design 2 is a class that will follow Graphic Design (absolutely required). This class will build into more advanced concepts surrounding the principles of design, our design program (currently Corel Paintshop Pro), and how all this can be applied to create real designs and advertising. Projects will also delve into more advanced typography, illustration, and formatting strategies. Among various design exercises and projects, students will create a brand for themselves as designers as well and build a portfolio website. This class will also offer the opportunity for real design work experiences throughout the school and community.

## **CTE - CAREERS IN ART**

1st & 2nd Semester

.05 credit

Grades 10-12

Prerequisite: 2 art classes (1credit) or upon approval

In this class, students will have an opportunity to study and research various careers within and related to the arts. A form of independent study, students will choose their own "career" to study and imitate, eventually completing a capstone project based on their chosen vocation. While a good portion of the class will be spent working on actual artwork, other activities such as journals, interviews, and presentations will make for an interactive and exciting experience. Whether you are interested in an art-related career or just want to learn something new, this is a great opportunity to build your skills and begin to understand the work world after high school. Experience life in the shoes of a photographer, designer, architect, painter, potter, and more!

## **BUSINESS EDUCATION ELECTIVES**

### **BUSINESS LAW**

2nd Semester (Tentatively being offered for school year 2024-2025)

.05 Credit

Grades 10-12

The Business Law course content will consist of a detailed study of a valid contract and the legal system. Crimes and torts relating to business will be emphasized during the semester. Other topics covered will be Bailments, sale contracts, automobile purchasing, consumerism, insurance, credit buying and real estate. This class uses current cases that appear in the Star Tribune, other national publications and television. Current movies are also used to reinforce learning of business law concepts and principles. **Classroom debates** that discuss current legal issues are also a part of this course. We look at all laws and debate the validity of them as well as laws that have outdated themselves. The computer and research are key in this class.

### **ENTREPRENEURSHIP**

1st Semester

.05 credit

Grades 9-12

In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with

new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.

### **PERSONAL FINANCE**

1st & 2nd Semester

.05 credit

Grades 9-12

This course is designed to teach students the skills necessary to be successful in managing their money in the "real world". Students will learn how to file income taxes, budget their income and spending, manage credit cards and loans, get a mortgage, fill out the FAFSA and scholarship applications, save for purchases and retirement, get insurance, and invest in the stock market.

### **BROADCAST PRODUCTION**

2nd Semester

.05 credit

Grades 9-12

This course is an exploration into the techniques and components used in creating a broadcast television production. Students will work in teams, and individually, to create and crew the production of live broadcasts of various natures, to get experience in a wide variety of content and gain an understanding of the unique differences and challenges across studio and remote productions. Equipment, process and terminology will be reinforced by videos, lectures and hands-on exposure. The pre-production, production, and post-production processes will all be discussed and practiced alongside training in the areas of directing, producing, technical directing, floor directing, camera, graphics and audio operation, and video playback. This course is designed to introduce students to careers in the broadcast, entertainment, and audio/visual industries in a way that is fun, hands-on, collaborative and technical.

### **FINANCIAL ACCOUNTING**

2nd Semester

.05 credit

Grades 9-12

This course is an introduction to the fundamental accounting concepts and principles used to analyze and record business transactions. Students will explore the Generally Accepted Accounting Principles (GAAP) and their implication on business transactions. Students will be able to analyze transactions into debit and credit parts and be able to create a general journal, general ledger, worksheet, income statement, balance sheet, and a statement of owner's equity for a proprietorship and 4 types of special journals for a partnership. Students will explore the pros and cons of business organized as partnerships, proprietorships, and organizations as well as companies that are service and merchandise businesses. We will also heavily discuss ethics and accounting careers through case studies.

### **MARKETING**

1st Semester

.05 credit

Grades 9-12

Students will learn about the four divisions of marketing: products, prices, places, and promotions. Students will create market research projects, design a product for the "Shark Tank", and create a commercial. Students

will explore many examples of marketing in the world around them and discuss the ethical impact of marketing regularly. This class is designed for students to be successful, thoughtful, ethical marketers and consumers!

### **WORK LINK**

1st & 2nd Semester  
.05 credit per Semester  
Grade 12 only

This course gives students the opportunity to get elective credit for skills they are learning in the workforce. Students must be employed by a company in which they receive a pay stub and is approved by the school. Students must work an average of 15 hours per week each semester. Students will be officially observed by your teacher and reviewed by your supervisor multiple times during the school year.

### **COMPUTER SCIENCE PRINCIPLES I & II (Formerly called Computer Programming)**

1 Year  
.05 credit per Semester  
Grades 9-12

Computer Science Principles covers many topics including the Internet, Big Data and Privacy, and Programming and Algorithms. Students will finish the course understanding how the internet works, how information is represented digitally,, and most importantly gain core programming and App development skills.

### **TIGER STORE**

1st & 2nd Semester  
.05 credit per Semester  
Grades 9-12  
This class can be taken more than once.

There is a school store right in our high school selling school and sports merchandise. All items will be made and sold through the Tiger Store Class.

You may be interested in the running of the school store. This class can be taken more than once.

If you are interested in:

Entrepreneurship      Marketing      Finances      Business

You may be interested in the creating side of starting a school store.

If you are interested in:

Design      Sewing      Embroidery      Graphic Designing      Merchandising  
Using interior design to create displays      Production

### **FAMILY AND CONSUMER SCIENCE ELECTIVES**

#### **FUNDAMENTALS OF FOOD PREP I** (Tentatively being offered for school year 2024-2025)

1st Semester  
.05 credit  
Grades 9-12

Do you ever wonder about your food? Where does it come from? How is it nutritionally affecting my body? How do I know if my meat is safely cooked? What's the difference between braising and grilling? Why do my

cookies sometimes turn out great and other times fall flat? What does it take to become a chef? All these questions (and more!) will be answered as we learn about our food through information and labs (actual cooking!). Learn life skills that can be used in your home or as a career.

**FOODS AROUND THE WORLD** (Tentatively being offered for school year 2024-2025)

2nd Semester

.05 credit

Grades 9-12

Prerequisite: Fundamentals of Food Prep I

In this interactive course, we will study the cultures of several particular countries. After a short study of the people/clothing/celebrations/arts/etc of each, we will study the traditional food of each country. Finally, we will collaboratively plan and cook a meal.

**CHILD DEVELOPMENT** (Tentatively being offered for school year 2024-2025)

1st Semester

.05 credit

Grades 9-12

This course explores the physical, emotional, social and intellectual development of children from birth through adolescence. It explores careers involving children as well as the skills and knowledge needed for healthy parenting and family life.

**DESIGN: FASHION & HOMES** (Tentatively being offered for school year 2024-2025)

2nd Semester

.05 credit

Grades 9-12

In Design, we will learn about the elements of design in housing, interior and fashion. We will explore architecture and furnishings throughout the ages. We will use housing and interior design knowledge and skills to meet specific design needs as well as learn about careers in the housing and design field.

**BAKING & PASTRY ARTS** (Tentatively being offered for school year 2024-2025)

1st Semester

.05 credit

Grades 9-12

Baking & Pastry Arts prepares the student for successful careers as baking and pastry professionals through exploring careers found within the baking and pastry industry, as well as building a foundation of principles and skills, and then using them to create delicious foods. Students will be able to prepare (and eat!) a wide array of baked goods, pastries, and confections.

Units included in this course may include :

- Intro to the baking profession
- Quick breads and yeast breads
- Cake baking and decorating
- Cookie making and decorating
- Pastries and speciality desserts

## **PHYSICAL EDUCATION / HEALTH ELECTIVES**

### **TEAM SPORTS**

1st & 2nd Semester  
.05 credit  
Grades 10-12

The class will be geared towards team and individual sports with a competitive tournament style atmosphere! Daily participation is REQUIRED and EXPECTED.

The class emphases are: Life-long participation in physical fitness/activities and its importance to overall wellness; Improving cardiovascular endurance, and (3) cooperation, responsibility, and good citizenship.

### **STRENGTH TRAINING**

1st & 2nd Semester  
.05 credit  
Grades 10- 12

This course is for those who want to gain knowledge in weightlifting and/or continue weightlifting for athletics and fitness programs. This class is also for those who want to work on cardiovascular fitness. The layout for the class will be 4 days of lifting and 1 day of cardiovascular fitness.

### **STRESS MANAGEMENT, FITNESS AND NUTRITION**

1st Semester  
.05 credit  
Grades 9-12

This class is designed to increase the quality of individual wellness. It aligns stress management techniques with healthy eating and physical activities. We will incorporate new knowledge and skills with practical application and personal goal setting. Learning to reduce anxiety and stress, tracking daily essential nutrients and purposeful fitness testing for each individual will help prepare students as they continue on with their lives. Guided and modified sessions will provide each individual to work toward success for balanced wellness.

### **HEALTH CAREERS & INJURY MANAGEMENT**

2nd Semester  
.05 credit  
Grades 9-12

This course is designed to provide information about the wide range of career paths within the healthcare field. Through instruction and hands-on experiences, students will learn about the skills needed to be successful in the career paths of health informatics, therapeutics, diagnostics, support services, and biotechnology.

## **ENGLISH ELECTIVES**

### **COLLEGE INTRO TO COMMUNICATIONS**

1 Semester                      Offered Bi-Yearly 2025-2026  
.05 Credit per Semester  
3 Credits for semester (Pine Technical & Community College)  
Prerequisite to receive college credit: Teacher/Dept. recommendation required.  
Grade 11-12



This course investigates the processes of interpersonal and small group communication, and the practices of public speaking. Students will examine theories of communication and will participate in various forms of interpersonal, small group, and public communication. Along with emphasis on communication skills, students will practice and heighten their skills of communicating with others directly, thinking critically, organizing ideas clearly, and speaking and listening effectively.

### **MULTICULTURAL LITERATURE**

1 Semester                      Offered Bi-yearly 2025-2026

.05 Credit per Semester

3 Credits for Semester (Pine Technical & Community College)

Prerequisite: Successful completion of College Composition. Teacher/Dept. recommendation required  
Grade 12.

This course is a study of literature written by and reflecting the perspectives of writers from different ethnic backgrounds within the United States. The course includes text written by contemporary writers focusing on the experiences of various ethnic groups through poetry, fiction, creative nonfiction, and drama. While the broad focus is on what these works say about the human experience, the course will also address how this experience is affected by social and cultural contexts. Students will increase their appreciation and critical understanding of literature through reading, writing, and discussion.

### **SUCCESS STRATEGIES FOR COLLEGE (formerly College First Year Experience)**

1 Semester

½ Credit (2 College Credits through Pine Technical and Community College)

Grades 11-12

This course is designed to assist students in exploring and developing the academic skills necessary to succeed in college and as a self-directed, life-long learner as well as the personal skills to manage their college life and set them up for success in their future careers. Students will be introduced to college and community resources and tools for academic success, including skills in stress management, financial literacy, critical thinking and creative problem-solving. They will develop their ability to articulate their long term goals; and they will demonstrate appreciation for diversity and understanding of self as civic and global citizens. This course is a common requirement at most colleges/universities.

### **SCIENCE ELECTIVES**

#### **COLLEGE HEALTH AND DISEASES IN THE HUMAN BODY**

1 year                              Offered Bi-Yearly 2025-2026

.05 credit per Semester (2 College Credits through Pine Technical and Community College)

4 college credits, equivalent to 1 high school credit (must take entire year to earn college credit)

Grades 11-12

Prerequisite to receive college credit: Teacher/Dept. recommendation required.

This course introduces students to the human anatomy and physiology. Students will learn the basic disease processes and body systems including: integumentary, skeletal, muscular, nervous, cardiovascular, immune, respiratory, urinary, digestive, endocrine and reproductive. The laboratory component emphasizes lecture content and includes dissection and experiments in physiology.

Outcomes:

1. identify basic body structure, systems, and functions using appropriate terminology;

2. describe common disorders associated with each body system;
3. examine ethical and civic implications of current and emerging issues on health and disease;
4. discuss societal issues as they relate to human health and disease;
5. identify and apply the scientific method.

### **COLLEGE INTRODUCTION TO ENVIRONMENTAL SCIENCE**

1 year              Offered Bi- Yearly 2024 -2025

.05 credit per Semester

Grades 11-12

Prerequisite to receive college credit: Juniors must be in the top ⅓ of their class and seniors must be in the top ½ of their class.

In this course, students look at the relationship of humans to their environment from local, regional, and global perspectives. Students will study natural ecosystems, the impact of human activity on natural resources and environmental quality, environmental ethics, and strategies to maintain a sustainable biosphere. Laboratory component includes experiences in the scientific method, basic ecological and environmental field techniques and assessment, and selected field trips to local agencies, research facilities, and businesses.

### **SCIENCE IN THE MOVIES**

1st & 2nd Semester

.05 credit

Grades 9-12

This course will use movies as a starting point for understanding scientific concepts. We will gain an accurate understanding of each concept being discussed in the film and learn how and why the particular science is done or why it is important. We will also take a look at how science is portrayed to the general public by the movie industry and if the science portrayed is accurate. Some of the movies will be Spiderman, Jurassic Park, The Martian, and Outbreak.

### **INTRODUCTION TO HUMAN ANATOMY**

2nd Semester

.05 credit

Grades 9-12

The course is appropriate for students interested in delving deeper into human anatomy than their high school course typically has time for, and also for those interested in pursuing medicine or other healthcare fields.

This course introduces students to basic human anatomy. Body structures will be studied by organ systems covering the anatomical terminology for the integumentary, skeletal, muscular, nervous, endocrine, respiratory, cardiovascular, lymphatic/immune, digestive, urinary, and reproductive systems. The laboratory component of the course will reinforce lecture concepts through the use of models, histological slides, and dissections.

### **SOCIAL STUDIES ELECTIVES**

#### **HONORS LESSONS IN LEADERSHIP**

2nd Semester

.05 Credit

## Grades 10-12

Rush City promises to create global citizens who are lifelong learners. Many students wish to go beyond being global citizens - they want to take a leadership role in their communities and in the world. Honors Lessons in Leadership would help students unlock their leadership potential and learn how to be great leaders and great teammates. Through movies, podcasts, books, and articles students will analyze different leaders throughout time to learn their lessons and discuss how to implement them in future situations our students will experience. Then, students will create their own high-level projects to create a positive impact on their community.

### **COLLEGE MODERN WORLD CIVILIZATIONS I : 1500-1870**

1 Year

.05 credit per Semester

Grade 12

4 College Credits - Anoka-Ramsey Community College

(for whole year – must complete the full year in order to receive college credit)

Recommended Skills, Abilities or Coursework: One social science and/or writing course at college level

HIST 1111- This course is a survey of world civilizations from about 1500-1870 emphasizing major historical transformations and processes that have shaped the interrelated global experience. Topics include Reformation, colonization, mercantile imperialism, Enlightenment, the French Revolution, 19th Century Liberalism, industrialization, urbanization, socialism, and nationalism as they have affected life in Europe, the Middle East, Asia, South American and Africa.

### **INTRODUCTION TO PSYCHOLOGY**

1st Semester

.05 credit

Grades 9-12

This is an elective course designed to offer a broad introduction to psychology. We will study the different theories of the major figures in psychology. We will also examine topics of interest including consciousness of the mind, senses & perception, personalities, abnormal psychology and other topics related to the brain and behavior.

## **MATH ELECTIVES**

### **PROBABILITY AND STATISTICS APPLICATIONS**

1 year

Grade 9-12

Learn how data analysts use counting strategies to determine the number of possible items in a set. Then using those strategies to calculate probabilities and values of various scenarios. The second half of the course involves using statistical measures to describe data sets and how they might relate to each other. These include measures of center, spread and variance, regression as well as determining z-scores.

### **ENGINEERING ESSENTIALS I**

Level 1-1st Semester

0.5 credits per semester

Grade 9-12

Explore how engineers make a difference and improve lives and how you can improve the world! This can be done while using modern engineering tools, such as geographic information systems, 3-D solid modeling

software, and prototyping equipment. Work on your own and as part of a team to develop solutions to community and global challenges that the next generation of engineers will face.

## **ENGINEERING ESSENTIALS II**

Level 2-2nd Semester Full Year

0.5 credits per semester

Grades 10-12

Prerequisite: Engineering Essentials I

Explore how modern engineers are helping improve the world through diverse engineering fields such as product design, robotics, mechanical design, hydraulics, infrastructure, and sustainability. Learn the principles of engineering as well as the cutting-edge tools of robotics, 3-D modeling, programming, and prototyping that engineers are using to solve problems today and for the future! Come design a machine to solve an agricultural problem, create a system of robots to play musical instruments, and design an automated golfer and golf course.

## **ADDITIONAL ELECTIVE OPPORTUNITIES**

### **TEACHERS' AIDE**

1st & 2nd Semester

Grades 11-12

Teacher's Aide is an opportunity for students that are making adequate progress toward graduation to help a teacher in their classroom. Students will receive credit for this opportunity but it will not be calculated into their GPA. Students will be graded with a pass/fail option and will be responsible for identifying the teacher that they will work with. Teachers will assign duties as needed. Students can only enroll in one of the following: Teachers Aide or Peer Tutoring.

### **PEER TUTORING**

1st & 2nd Semester

.05 credit

Grades 11-12

This course is designed to match high school students up with other students for a one on one tutoring situation. After a training session, students are assigned to a classroom (to assist a teacher), a junior high study hall or to a specific student. \*Students can only enroll in one of the following: Teachers Aide or Peer Tutoring.

## **Local 49 Apprenticeship Program - Operating Engineers Pathway Program**

### **Heavy Equipment Classes**

1st & 2nd Semester

.05 credit & articulated college credit

Grades 9-12

These 4 courses are in conjunction with the IUOE Local 49 Apprenticeship Program. These classes are online and expose students to career opportunities in the heavy equipment industry.

## **CAR022 Construction Explorations**

### **MFG101 Basic Grade & Construction Math**

Prerequisite: CAR022

## **MFG201 Construction Equipment Fundamentals**

Prerequisite: CAR022 & MFG101

## **MFG202 Basic Maintenance**

Prerequisite: CAR022, MFG101 & MFG201

## **ITV COURSE ELECTIVES**

Rush City Schools are a member of East Central Minnesota Educational Cable Cooperative (ECMECC). These programs offer interactive television and online learning opportunities. Students must have at least a 3.0 to enroll in ITV and spots are given out to seniors 1st, juniors 2nd, sophomores 3rd and freshmen 4th. In addition, students can not register for classes already offered within the classroom at Rush City High School.

## **COLLEGE PSYCHOLOGY**

1 Semester

.05 HS credit 4 College Credits

Grades 11-12

Psychology is the science of behavior and mental processes. This course is a survey of the fundamental principles, research findings, and theories in psychology. Students will learn the core ideas and findings in the scientific study of behavior and the mind. Students will learn about many topics in psychology including brain anatomy and function, learning, human development, intelligence, perception, memory, emotions, motivation, personality, social psychology, sleep and dreaming, and psychological disorders and their treatments.

## **CYBER SECURITY ESSENTIALS/COMPUTER HARDWARE**

1 Semester

0.5 HS Credit - 5 College Credits

Grades 11-12

Cyber Security - This course introduces students to networking concepts, technologies, and typical network administration duties found in the workplace. Students will learn communication models, network protocols, IP addressing and subnetting, physical and logical topologies for local area networks (LAN) and wide area networks (WAN), transmission media, and basic router and switch configuration.

Computer Hardware - In this course, students learn to support personal computer (PC) hardware. Students will investigate how hardware is installed and operates in relationship with the software used to support that hardware. Topics include the installation, configuration, support, and troubleshooting of system boards; CPUs; memory; video connections; floppy, optical, and hard drives; multimedia; and input/output devices.

## **AMERICAN SIGN LANGUAGE I**

1 year

.05 credit per Semester

Grades 9-12

American Sign Language is the language used by approximately a half million Deaf and Hard of Hearing people in the United States and parts of Canada. This language differs from English in its grammar and structure. In this class you will be learning basic American Sign Language vocabulary, grammar, and sentence structure. You will also be introduced to some of the unique social and cultural implications of deafness. This "hands-on" course is designed with opportunities to develop your receptive and expressive skill through dialogue practice and interaction activities. Portions of the course will be conducted non-verbally (voices are not allowed).

## **AMERICAN SIGN LANGUAGE II**

1 year

.05 credit per Semester

Grades 10-12

ASL II is a continuation of ASL I. Students will continue to develop expressive and receptive skills while increasing understanding of more complex vocabulary and grammar. Conversational skills and appropriate sign choice will be emphasized. Further exploration of Deaf Culture is also included. At the completion of the course, students should be able to carry on extended conversations on a variety of topics, and will possess the cultural awareness necessary for successful interaction with members of the Deaf community. Portions of the class will be conducted in ASL, without spoken English.

## **GERMAN I**

1 year

.05 credit per Semester

Grades 9-12

This course introduces the beginning student to the language and culture of the German-speaking countries. Emphasis is placed on using German in everyday situations. Students will learn to use their new language in such situations as meeting new people, going to school, telling time, ordering in a restaurant, traveling by train, going to the movies, and participating in sports. Much of the language is acquired by classroom drill and practice, but learning also takes place through the use of games, songs and other projects. In addition, students will learn about the culture and customs of Germany, Austria, and Switzerland. Because a foreign language requires memorization and daily study, students should be prepared to spend 10-15 minutes each day studying outside of class. The basic text used is Genial.

## **GERMAN II**

1 year

.05 credit per Semester

Grades 10-12

German II is a continuation of German I with Genial used as a text. Students will continue to develop their vocabulary and acquire new and more complex language skills. The end of the course will have exposed students to most of the common aspects of German grammar and should be able to carry on extended conversations on a variety of topics. Among the units covered in the course are travel, holidays, letter writing, animals, buying a car, and various types of food. As in German I, daily study is a must. Students should be prepared to spend 10-15 minutes daily on study outside of class.

## **COLLEGE GERMAN III**

1 Year

.05 credit per Semester

5 College Credits (University of Minnesota)

Grades 11-12

This class will focus on improving proficiency and cultural understanding. The textbook Sprünge will be used and is divided into 4 chapters that focus on the multicultural aspects of German life, school, and work. It also focuses on the ever changing face of Germany and its history. At the end of this year students are tested on their speaking, writing and reading skills with another German teacher. They are also expected to create a video with their class. Students should be prepared to spend 20 minutes daily on study outside of class.

## **FRENCH II**

1 year

.05 credit per Semester

## Grades 10-12

French II is a one-year course that emphasizes the foundation skills of speaking, listening, writing and reading, taught through the application of simple grammatical concepts. Students will review materials from the first year to study, continuing to develop proficiency in communicative skills, and deepen appreciation of francophone culture. The Standards for World Language are integrated into the course throughout the entire year and goals for each unit are posted in the classroom for students to view. Along with the textbook, *Discovering French*, students will be completing workbook pages, writing activities, viewing the text video series and popular animated films in the target language, as well as listening to music from the French-speaking world.

### **HEALTHCARE ACADEMY**

This course is a combination of four different college courses... Please make sure you read all of the information.

#### **1st Semester**

.05 credit

College credit Intro to Health Careers I (2 credits) and Medical Terminology (1 credit) are a two course package taken 1st Semester

Grades 11-12

### **INTRODUCTION TO HEALTH CAREERS I**

1st Semester -This course will familiarize students with the historical, philosophical, and social foundations of various health care careers. Students will explore career options within the fields of allied health. Course content is designed to provide glimpses into a variety of aspects of health careers, to promote discussion, and to encourage critical reflection and self-exploration. The major course topics will guide students in exploring the influences of legal and ethical influences on health careers and how these influences impact what is done in the profession today.

### **MEDICAL TERMINOLOGY**

2nd Semester

.05 credit

This course reinforces correct word definitions, pronunciation, and spelling as studied in Medical Terminology. Students will be introduced to additional terminology specific to all body systems as well as abbreviations, eponyms, and common drug names. Students will apply medical terminology to basic interpretation of focused Internet searches. Medical terminology as it relates to basic anatomy and functions of the body systems will be further explored.

#### **2nd Semester**

.05 credit

College credit Intro to Health Careers II (2 credits) and Medical Dosages (1 credit) are a two course package taken 2nd Semester

Grades 11-12

### **INTRODUCTION TO HEALTH CAREERS II**

2nd Semester -This course will familiarize students with the expected patient care for various health care careers. Students will explore client and staff diversity, client needs, and safety and standard precautions found in allied health careers. Course content is designed to provide health care terminology, promote discussion, and to encourage critical reflection and self-exploration.

Prerequisite: Introduction to Health Careers I

## **MEDICAL DOSAGES**

1st Semester

.05 credit

Course introduces students to medical dosages and terminology associated with medication orders. Theory and skills related to calculating medication dosages will be the focus of this course.

## **PHARMACOLOGY**

.05 Credit

This course will provide the student with an introduction to basic pharmacology. Students will be presented with the major drug classifications as they relate to body systems.

## **HEALTHCARE CAREERS SKILL SET**

2nd Semester

.05 credit

Healthcare Careers Skill Set (2 credits) is in a separate class.

This course (taken on PTCC campus) is an introduction to basic nursing care skills and concepts necessary to prepare an individual to be eligible to take the Nursing Assistant Test-Out (NATO) examination. Combined with Intro to Health Careers I and Intro to Health Careers II, and upon successful completion of the NATO examination, will qualify students for placement on the Nursing Assistant Registered (NA/R) with the state of Minnesota and employment in a healthcare facility under the direct supervision of a licensed nurse.