Laconia High School

Scheduling Handbook 2022-2023

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COURSE DESCRIPTIONS

REQUIRED COURSES

ELECTIVES

What are the courses required to graduate from Laconia?

Grade Level Requirements:

9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English
Contemporary Social Issues & Global Studies	World History	US History	American Government & Economics
Math (Course varies)	Math (Course varies)	Math (Course varies)	
Biology	Varies	Varies	
Phy.Ed	Phy. Ed	Phy. Ed	
4.5 credits required plus electives	**4.5 credits required plus electives**	**4.5 credits required plus electives**	**2 credits required plus electives**

To be eligible for a Laconia High School diploma, students must earn a minimum of 24 credits during their four years of high school.

What is the Difference Between High School Graduation Requirements & College Entrance Requirements?

High School	College
4 English	4 English
3 Math	3 Math including Algebra II or higher
4 Social Studies	3 Social Studies
3 Science	3 Natural Science
11 Other Credits (See Grade Level Requirements Chart)	4 Other Electives chosen from the following: foreign language, fine arts, computer science, other academic areas

Please note that as an admission requirement, UW Madison requires 3-4 years of a single foreign language; if taken in high school, a foreign language may satisfy UW Milwaukee's, UW Parkside's, and UW Platteville's requirement for graduation

*The information provided for college entrance requirements is according to the UW System average; each college has its own standards for admission. Please see one of the following websites for college-specific information: www.wistechcolleges.org , www.wisconsinprivatecolleges.org, and uwhelp.wisconsin.edu

ADVANCED PLACEMENT PROGRAM

Since 1955, the College Board has helped organize guidelines for Advanced Placement (AP) courses for high school students. AP courses offer students an opportunity to explore subjects at an in-depth level as well as provide an opportunity to potentially earn college credits.

Laconia High School currently offers the following Advancement Placement courses:

AP Biology
AP Calculus AB
AP Chemistry
AP Computer Science Principles AP
Computer Science A (Java)
AP English Language and Composition AP
English Literature and Composition AP
European History
AP United States Government and Politics AP
United States History

Students thinking about an AP course should consider the following:

- AP courses are taught with college-level rigor and are generally more fast-paced than a regular high school course. Texts are usually more complex and courses include more reading and writing than other classes.
- Students can expect an average of 45-60 minutes per night of AP homework per class.
- Students are expected to manage AP coursework with their extracurricular and work schedules.
- Though AP courses are designed to be taught at the same level as an introductory college course, students not planning on attending a four-year institution are still encouraged to sign up for classes if they are interested.
- AP classes are extremely challenging but are also tremendously rewarding to students who complete the coursework.
- All students who are enrolled in an AP course are expected to take the official AP subject area exam in May. The cost of the test is covered by the school.
- Students earning a grade of C+ or greater will earn a weighted credit.
- Extra credit assignments are not available in AP courses.

Early College Credit & Start College Now Programs

(Formerly Youth Options)

	Early College Credit Program	Start College Now
Program Overview	The "Early College Credit" program will allow high school students the opportunity to take one or more courses at an institution of higher education for high school and/or college credit. Institutions included are those within the University of Wisconsin System, a tribally controlled college, or a private, nonprofit institution of higher education located in the state of Wisconsin.	The "Start College Now" program will allow high school students the opportunity to take one or more courses at a Wisconsin Technical College.
Eligibility	● Students in grades 9-12 ● Courses may be taken during Fall, Spring, and Summer semesters.	● Students in grades 11-12 ● Courses may be taken during Fall and Spring semesters.
Process	● Student must submit an application to the institution of higher education (IHE) in the previous school semester. ● Student must notify the school district of intent to enroll by March 1st for the fall and summers, and October 1st for the spring semester. The notification form may be found in the school office, school counseling office, or on the district website. ● District will notify student of approval and/or rejection of desired courses for credit before the beginning of the semester in which the pupil will be enrolled. ● Enrollment in course(s) is not guaranteed; student must follow any registration requirements in place and meet any prerequisites of IHE. ●If the student receives a failing grade or fails to complete the IHE course in which he/she has enrolled, the student's parent or guardian shall reimburse the school district the amount paid on the student's behalf.	● Student must submit complete the application for the Start College Now Program found in the school counseling office. ● Completed form must be submitted no later than March 1st for the fall semester and October 1st for the spring semester. ● District will notify student of approval and/or rejection of desired courses for credit before the beginning of the semester in which the pupil will be enrolled. ● Enrollment in course(s) is not guaranteed; student must follow any registration requirements in place at the technical college and meet any prerequisites.

Website	UW System: https://uwhelp.wisconsin.edu/high-school-special-student-options/ Private Schools: http://www.waicu.org/dual-enrollment/eccp	https://tinyurl.com/yapmslfe

YOUTH APPRENTICESHIP PROGRAM

What is it?
Youth Apprenticeship (YA) is a rigorous statewide elective program for high school juniors and seniors that combines academic and technical classroom instruction with mentored on-the-job learning. It's an opportunity for students to experience a career while still in high school.

How does it work?
- Students attend their home high school and continue taking courses required to meet graduation requirements along with technical coursework, which follows industry standards.
- Students work 10-20 hours per week during the school year and are encouraged to work during the summer depending on business needs.
- Employers provide wages, worker's compensation, competency training, and mentoring.
- Students who master the competencies and graduate from high school, receive a state issued skills certificate. Students may be eligible for advanced standing at a technical college offering a similar program.

There is no commitment from the employer to hire the student or for the student to remain with the employer after graduation. However, successful experiences have resulted in the student continuing with their employer.

How do I get involved?
- All students apply for the program through their home school districts. Students must be on track for high school graduation (sophomore or junior standing depending on year applying).
- Students must have explored the career area they want to participate in.
- Students must be interested in participating in a hands-on learning experience.
- Students must be at least 16 years of age.

Qualifications
- Good Attendance Record
- On Track for Graduation
- Driver's License/Transportation
- Personal Costs-Textbooks (only if you keep the books), uniforms, tools
- Communication Skills- Clear and timely communication for students in extracurricular activities and sports

Interested students should see Ms. Barber for more information.

Career Clusters

One of the keys to improving student achievement is providing students with relevant contexts for studying and learning. Career Clusters™ do exactly this by linking school-based learning with the knowledge and skills required for success in the workplace. The National Career Clusters™ Framework is comprised of 16 Career Clusters™ and related Career Pathways to help students of all ages explore different career options and better prepare for college and career. Each Career Cluster™ represents a distinct grouping of occupations and industries based on the knowledge and skills they require.

When choosing courses, look for those that help to prepare you for the future you want.

Agriculture, Food & Natural Resources

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, other plant and animal products/resources.

Architecture & Construction

Careers in designing, planning, managing, building and maintaining the built environment.

Arts, A/V Technology & Communications

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Business Management & Administration

Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

Education & Training

Planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

Finance

Planning and related services for financial and investment planning, banking, insurance, and business financial management.

Government & Public Administration

Planning and executing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.

Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Hospitality & Tourism

Preparing individuals for employment in career pathways that relate to families and human needs such

as restaurant and food/beverage services, lodging, travel and tourism, recreation, amusement and attractions.

Human Services

Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

Information Technology

Building linkages in IT occupations for entry-level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Law, Public Safety, Corrections & Security

Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

Manufacturing

Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Marketing

Planning, managing, and performing marketing activities to reach organizational objectives such as brand management, professional sales, merchandising, marketing communications, and market research.

Science, Technology, Engineering & Mathematics

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Transportation, Distribution & Logistics

The planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

ROSENDALE-BRANDON SCHOOL DISTRICT POLICY 343.21

HIGH SCHOOL COURSE CHANGE POLICY
STUDENT WITHDRAWAL FROM CLASSES

It is the belief of the Rosendale-Brandon School District that students and parents should give serious consideration when selecting courses. The master schedule is constructed and faculty is assigned classes based on the number of original student course requests during registration. The arbitrary dropping of classes by students may have an adverse effect on class size and may result in a reduction, in some cases, where it becomes impractical economically to operate the class. It is the responsibility of the school to encourage careful and advanced planning for the future, and it is an important task of all schools to teach students to complete any task which they begin, regardless of the difficulties which may develop.

This policy is created to give high school students and their parent(s) an opportunity to make timely, efficient, and intelligent decisions regarding course selections.

1. Students are provided with available course information including graduation requirements, post-secondary entrance requirements, and course descriptions in order to make an informed decision.

2. Parents give their approval to all courses in which students enroll.

3. Changes to course selections must be completed within 30 days of the original registration.

4. Changes at the beginning of the school year and semester will be limited to errors only, for example, student failed a prerequisite, student failed a required course, or student did not complete summer school or insufficient credits.

5. Non-error changes can be made at the beginning of the semester **for core classes**, for example, if a student needs to add an additional credit of math or science. Elective courses may not be changed unless they are affected by a core course change.

6. No changes will be made after the first week of school. Students who are given permission to drop a course after this time period may receive a grade of “F” for each quarter and semester.

7. Individual circumstances will be reviewed on a case-by-case basis with appeals to the principal.

REVISED and APPROVED: 10/20/97
REVISED and APPROVED: 11/21/11

REQUIRED COURSES

ENGLISH (4 CREDITS REQUIRED)

FRESHMAN ENGLISH
1 CREDIT GRADE 9

Freshman English provides students with the opportunity to identify and analyze key ideas, details, and structures of literature and informational texts. Students will conduct research using credible sources in addition to literature and informational texts to create paragraphs, essays, presentations, creative writing, and debates/discussions. The focus will be placed on using evidence to support ideas, formal writing structure (MELCon and MLA), originality, and academic language.

SOPHOMORE ENGLISH
1 CREDIT GRADE 10

Sophomore English provides students with an introduction to the study of renowned literature including genres such as short stories, poetry, drama, novels, and nonfiction within thematic units. Through their exploration of these genres, students will continue to develop and strengthen their reading and critical thinking skills. Students will analyze the structure, argument, style, and evidence provided within various forms of writing. In addition, their composition skills will be enhanced by writing in a variety of different situations for a variety of different purposes. Verbal communication skills will continue to be developed through discussions, speech projects, and Socratic seminars. Development of grammar and vocabulary skills will be integrated throughout the course.

JUNIOR ENGLISH
1 CREDIT GRADE 11

Junior English provides students the opportunity to identify, analyze, and evaluate key ideas, details, and structures of American literature and informational texts related to American literature from the 1600s to present time. Students will use the literature and texts to create expository, persuasive, narrative, and creative essays, speeches, and digital media presentations. Additionally, students will be asked to participate in group discussions, utilize the formal (MEL-Con) format, and strive toward originality.

OR

AP ENGLISH LANGUAGE AND COMPOSITION
1 CREDIT GRADE 11 WEIGHTED GRADING COURSE

Recommendation: This course is recommended for students who have earned a grade of "B" or higher in sophomore English. AP Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way conventions and the resources of language contribute to effective writing. Students will write about a variety of subjects from a variety of disciplines to demonstrate an awareness of audience and purpose. Also, students will learn to write effectively and confidently across the curriculum and in their professional and personal lives. Successful completion of this course prepares students to take the English Language and Composition Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school. ***Students may be required to complete assignments over summer break before the first day of school.***

SENIOR ENGLISH
1 CREDIT GRADE 12

This class teaches the writing process, which includes prewriting, drafting and revising. Through writing assignments, students analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Class sessions and assignments involve giving oral

presentations and using computers. Students will also read fiction and nonfiction texts independently and in groups. Major assignments include direct and indirect business letters, memos and emails, instructions, an oral presentation, visual support, summary, short report, working collaboratively, and a 10-page research paper (six sources cited MLA, 5-6 pages of double-spaced body content). English 12 and English 12 dual credit will run within the same classroom. Seniors may receive credit from Fox Valley Technical College for the course if they receive an 80% or better for the class Written Communication (801-195) and/or College Success (890-100). Students may earn credit from Moraine Park Technical College for College 101 (890-101). Written Communication is guaranteed to transfer to all colleges in the UW system and may be accepted at other colleges as well. *Students wishing to sign up for English 12 or English 12 Dual Credit will all sign up for the same class, English 12.*

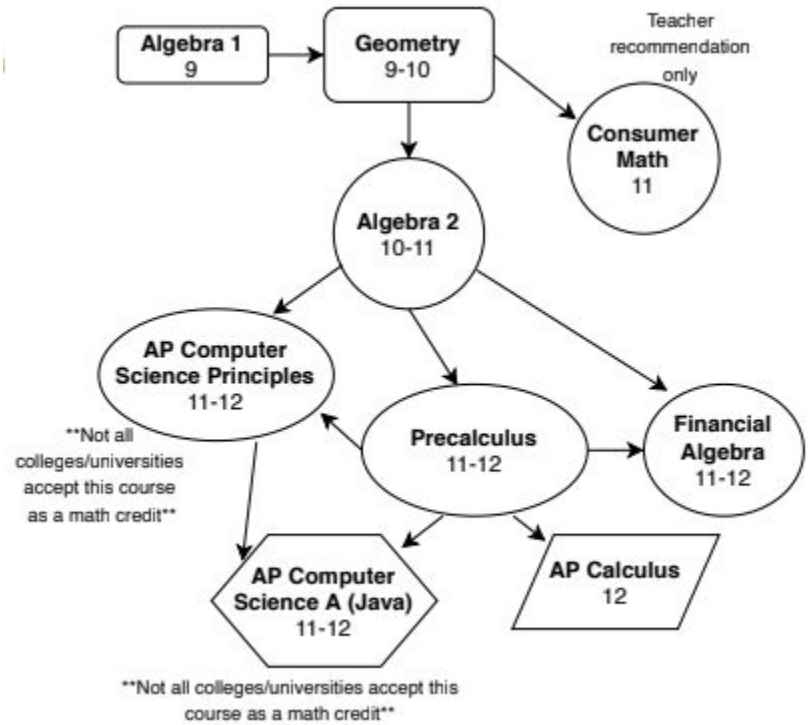
OR

AP LITERATURE AND COMPOSITION
1 CREDIT GRADE 12 WEIGHTED GRADING COURSE
Recommendation: This course is recommended for students who have earned a grade of "B" or higher in either junior English course.
Advanced Placement Literature and Composition focuses on a wide range of genres that reflect the type and quality of works that will be seen at the collegiate level. Students will be required to read extensively and master a wide range of literary genres, read closely for detail as well as literary devices and structures, respond to reading with thoughtful inquiry, articulate responses in discussions conducted in various classroom settings, and write intelligent and insightful critical analyses of literary works in both impromptu and prepared writings.
Students should be ready and able to function as a part of a learning community that allows for guessing, speculation, and interpretation in order to develop their ability to read closely, accurately report contents of text, and intelligently respond to readings, interpretations, and insights. Successful completion of this course prepares the student to take the English Literature and Composition Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school. **Students will be required to complete assignments over summer break before the first day of school.**

MATHEMATICS (3 CREDITS REQUIRED)

Three years or credits of math are required to graduate from Laconia High School.

Currently, students seeking admission to a four-year college/university need a **minimum** of three credits of math that include Algebra I and higher. Also, programs at technical colleges continue to emphasize the need for higher-level math skills. It is also important to realize that many occupations rely heavily on math skills so exposure to as much math as possible is important while in high school.



There are many options when choosing your math credits. The chart provided here shows examples of some of the possibilities. It's important to consider your abilities, your math needs, and your future plans when making your selection.

ALGEBRA I

1 CREDIT GRADE 9

This course is designed to prepare students for vocational school, technical jobs, or college. It introduces the use of variables to solve problems that would be difficult or impossible to solve without the use of variables. The main essence of the course is analyzing problems, translating the given data into an equation, and solving the equation.

GEOMETRY

1 CREDIT GRADES 9-10

This course takes an intuitive approach where investigation, numerical calculations, measurements, and applied activities are emphasized. The areas of geometry covered are inductive reasoning, congruent triangles, right triangle trigonometry, Pythagorean Theorem, quadrilaterals, three-dimensional solids, and proofs. This course includes applications of probability and statistics. A scientific calculator is required.

CONSUMER MATH

1 CREDIT GRADES 11-12

PREREQUISITE: GEOMETRY AND TEACHER RECOMMENDATION.

STUDENTS THAT HAVE PREVIOUSLY TAKEN ALGEBRA II ARE NOT ELIGIBLE TO TAKE THIS COURSE This course will cover many personal finance topics including checking, savings, types of credit, managing credit, budgeting, investing, financial pitfalls, career readiness, and insurance.

ALGEBRA II

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 10-12

PREREQUISITE: GEOMETRY

This course is a continuation of Algebra 1. Topics include properties of real numbers, order of operations, algebraic solution for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, and algebra of inverse, logarithmic and exponential functions. *Students who earn a C or better in this class and choose to enroll in the transcripted credit option will earn 4 credits from Moraine Park Technical College for the course 804-118 Intermediate Algebra with Applications.*

FINANCIAL ALGEBRA

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 11-12

PREREQUISITE: ALGEBRA II

Financial Algebra is a course that will use mathematics to give you the tools to become a financially responsible young adult. The course employs Algebra, Pre-Calculus, probability and statistics, Calculus, and Geometry to solve financial problems that occur in everyday life. Real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting, and planning for retirement are solved by applying the relevant mathematics. Field projects, computer spreadsheets, and graphing calculators are key components of the course.

PRE-CALCULUS

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 10-12

PREREQUISITE: ALGEBRA II

Pre-Calculus is an advanced course designed for college preparation. It contains work from Probability and Statistics and Trigonometry. This course reviews topics from Algebra II and prepares students for their first college math course.

AP CALCULUS AB

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 11-12 WEIGHTED GRADING COURSE

PREREQUISITE: PRE-CALCULUS

This course is equivalent to one semester of college calculus. The main topics are integration and differentiation and their applications. Successful completion of this course prepares the student to take the Calculus AB

Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school.

AP COMPUTER SCIENCE A (JAVA)

1 CREDIT GRADES 11-12 WEIGHTED GRADING COURSE

PREREQUISITE: AP COMPUTER SCIENCE PRINCIPLES OR COMPLETION OF PRE-CALCULUS

Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem-solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction. This class is very programming-heavy and should be taken by students who plan on going into computer science and already have a background in coding. Successful completion of this course prepares the student to take the AP Computer Science A (JAVA) Exam in May. The exam is a requirement of the course and the cost is covered by the school district. **While this course may earn math credit to count towards high school graduation, not all colleges/universities will accept it as math credit for admission.**

AP COMPUTER SCIENCE PRINCIPLES

1 CREDIT GRADES 10-12

PREREQUISITE: EXPLORING COMPUTER SCIENCE OR COMPLETION OF ALGEBRA 2

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world. Successful completion of this course prepares the student to take the AP Computer Science Principles Exam in May. The exam is a requirement of the course and the cost is covered by the school district. **While this course may earn math credit towards high school graduation, not all colleges/universities will accept it as math credit for admission.**

PHYSICAL EDUCATION (1½ CREDITS REQUIRED)

The Physical Education Department, as well as the Rosendale-Brandon School District, has made a commitment to prepare students to live healthy, productive, and physically active lives for the 21st Century. Therefore,

- Physical education will provide every student with a variety of challenges that will contribute to the development and maintenance of their physical, cognitive, and affective well-being.
- The student will be provided with the foundation for making informed decisions that will empower them to achieve and maintain a healthy lifestyle.
- Physical Education is a life-long process, which is the primary responsibility of the student, shared by home, district, and community.

All classes can be taken as a required class or as an elective, but students can only take one Physical Education Course per semester. Courses are offered based on student requests; therefore, if there are not enough student requests to run a course, students may have to choose an alternate physical education class to satisfy their physical education requirement. Courses will be filled with students needing the course to fulfill a physical education requirement first and elective choice requests second, where room permits.

PERSONAL WELLNESS AND FITNESS

½ CREDIT GRADES 9-12

Students in this class will be part of a **non-competitive** class structure. Students will participate in a variety of group and individual workouts such as circuit training, aerobics, yoga, weight training, etc. They will also have the option to create and implement a self-designed workout program to follow on a daily basis. Through these activities, students will learn the knowledge and skills needed to develop and maintain a lifetime of optimal health and fitness. There will also be low level/non-competitive games (Disc Golf, Badminton, Snowshoeing, Volleyball, Ping Pong, etc) played in this class one or two days per week for the students that do not create their own personal fitness/wellness program. The following components are included: physical fitness testing

(pre/post), various fitness activities, non-competitive games that promote being active, personal habits, nutritional awareness, stress management, and environmental factors that influence one's health. The class will consist of 1-2 game days and 3-4 workout days per week. **Pre/Post Fitness and skill testing will be conducted. All students will also be required to complete any assignments in Google Classroom by the required due date.**

STRENGTH-SPEED-AGILITY

½ CREDIT GRADES 9-10 AND GRADES 11-12

This course is designed to provide students with a basic-advanced understanding of weight training, speed training, and performance-based fitness as it applies to a healthy lifestyle and improved performance. Students will be taught how to design a personal fitness program that incorporates cardiovascular training and resistance training. There will also be nutritional information provided. This class is designed for male and female students and athletes who want to take their performance to the next level, or for the student who wants to take their personal fitness to an optimal level. There will be NO games played during this class. The class will consist of 5 workout days per week. **Pre/Post Fitness and skill testing will be conducted. All students will be required to complete a Daily Fitness Log.**

TEAM SPORTS/FITNESS

½ CREDIT GRADES 9-10 AND GRADES 11-12

This class involves fitness/group training sessions, competitive ball related sports, and net games where teamwork and sportsmanship will be emphasized. The weight room can be utilized for this class as an alternative to the game/activity for the day if they choose. A typical week will generally include two workout days and three game/sport-related days. However, the instructor can make modifications to this schedule as needed. Some activities include soccer, basketball, ultimate frisbee, volleyball, hockey, disc golf, and much more. **Pre/Post Fitness and skill testing will be conducted. All students will be required to complete any assignments in Google Classroom by the required due date.**

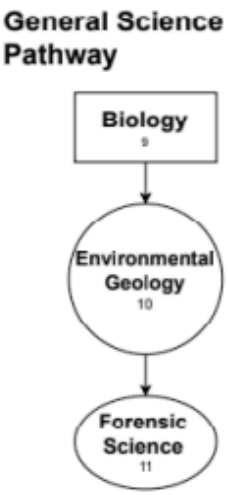
SCIENCE (3 CREDITS REQUIRED)

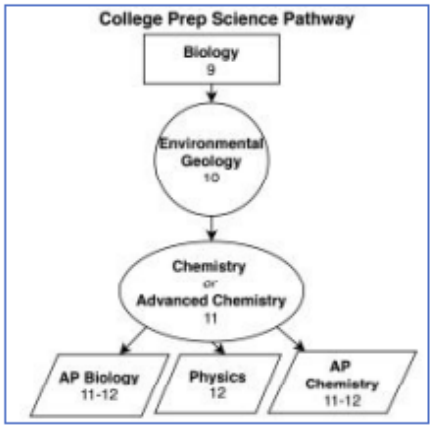
Health Science

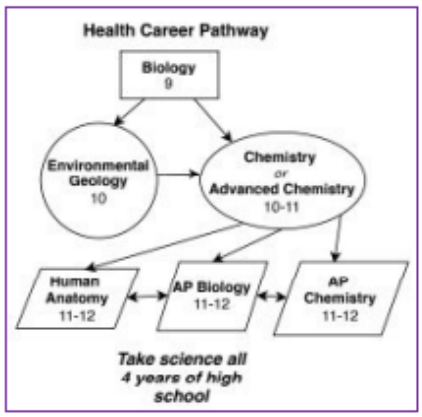
Science, Technology, Engineering & Mathematics

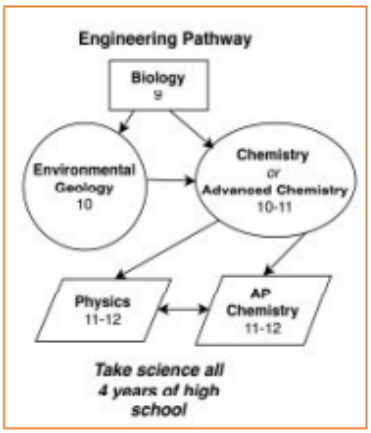
A minimum of three years of science is required to graduate.

However, students planning on attending a four-year college, or those interested in careers in the science or technology fields, are encouraged to take more than the minimum requirement. In fact, students planning on a career in a science field are encouraged to take four or more science courses. The following charts show some options to consider when scheduling based on different pathways.









BIOLOGY

1 CREDIT GRADE 9

This introductory course is designed to familiarize students with scientific thinking and the nature of living things. Students will learn basic scientific principles, vocabulary, and techniques through videos, worksheets, readings, online investigations, projects, and activities/labs. This course will cover the basics of scientific thinking/scientific method, introductory biochemistry, ecology, cell structure and function, cellular energy processes, cell division, genetics, and evolution. Additionally, this course will emphasize the importance of understanding living organisms and how they function and apply to humans. During this year-long class, students will participate in many hands-on activities and some additional laboratory activities to explore the concepts at hand.

ENVIRONMENTAL GEOLOGY

1 CREDIT GRADES 10-12

This course will focus on the function of the Earth's systems. Emphasis is placed on human interactions with Earth's geologic and environmental systems. This class will help students develop an awareness of the scientific and social-environmental problems facing planet Earth, along with the history of the Earth. Topics of study include astronomy, mapping, rocks, plate tectonics, volcanoes, earthquakes, water, weather, and geologic time. Students will complete many online activities and a few hands-on activities in order to explore the concepts being studied.

FORENSIC SCIENCE ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12

This course is designed to introduce the student to practical applications of Chemistry, Physics, and Biology in the study of forensics. This course will provide students with an introduction to the understanding and practical application of forensic science techniques including forensic evidence collection and examination, crime scene investigations, forensic entomology, forensic anthropology, forensic toxicology, drugs and poisons, ballistics, bloodstain pattern analysis, DNA typing, understanding of the relationship between forensic science and legal studies, and career opportunities in forensics. Grades will be based on a combination of labs, projects, and written tests.

CHEMISTRY ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 10-12

PREREQUISITE: BIOLOGY AND GEOMETRY OR TEACHER RECOMMENDATION

Recommendation: “C” or better in Geometry

Chemistry is the study of matter and how it changes. By studying chemistry, you will discover how some of the smallest particles in the universe interact and are able to come together to form all of the matter that you see (and don’t see) around you. Some topics covered in Chemistry are the structure of the atom, periodicity, chemical bonding and reactions, stoichiometry, reaction rates, and nuclear reactions. Math is used frequently in Chemistry, so a scientific or graphing calculator is required.

HUMAN ANATOMY AND PHYSIOLOGY ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12

PREREQUISITE: CHEMISTRY

This class is a one year course that examines the concepts of human anatomy and physiology. Students in this class will gain knowledge of location, structure, and function of human anatomical structures such as bones, muscles, nerves, and blood vessels. Through the use of laboratory investigations and practicals, models, online sources, and multi-functional worksheets, students will memorize human anatomy. The physiology portion of the class will study the functions of the anatomy students learn and ask the question, “How do the parts of the body work?" Students will also gain knowledge about real-world applications of anatomy and physiology through their studies. Additionally, this course includes dissections which will help students to visualize the anatomy. The capstone for this course includes the opportunity for students to visit a cadaver lab.

AP BIOLOGY ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12 WEIGHTED GRADING COURSE

PREREQUISITE: CHEMISTRY

The AP Biology course is designed to be the equivalent of a college introductory course. 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. Students taking AP Biology may receive credit and advanced placement

at most colleges upon successfully completing the advanced placement examination. The advanced placement course will emphasize laboratory and individual study. Areas of study and experiment range from molecules and cells to genetics and evolution, to organisms and populations. Experiments may include the areas of organic molecules and enzymes, molecular and Mendelian genetics, comparative vertebrate anatomy and physiology, plant anatomy and physiology, and ecology. Due to the volume of material that is needed to be covered, **a summer assignment will be required to be completed prior to the start of school. Additionally, students will need to attend class on two Saturdays in order to complete extended lab requirements.** Successful completion of this course prepares the student to take the Biology Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school.

AP CHEMISTRY **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12 WEIGHTED GRADING COURSE**
PREREQUISITE: CHEMISTRY AND ALGEBRA 2
Recommendation: It is recommended that students have earned a grade of "B" or better in each of the prerequisite courses. This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the course enables them to undertake, as a freshman, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. Successful completion of this course prepares the student to take the Chemistry Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school. **Students may be required to complete assignments over summer break before the first day of school.**

PHYSICS
1 CREDIT GRADES 11-12
PREREQUISITE: ALGEBRA II
Physics is the study of matter and energy in space and time. Some topics covered in Physics are linear and non-linear motion, forces, sound, optics, and electricity. Physics students at Laconia High School participate in many hands-on activities, labs, and problem-solving sessions. Physics is a math-based course, so a scientific or graphing calculator is required.

SOCIAL STUDIES (4 CREDITS REQUIRED)

CONTEMPORARY SOCIAL ISSUES
½ CREDIT GRADE 9
In Contemporary Social Issues, the student will look at the sociological problems facing our current American society. Some of the topics the course will study include, but will not be limited to, social bias, drugs, alcohol, AIDS/STDs, crime/punishment, and the impact of violence. It will be the intent of this course to help students become independent thinkers and responsible citizens as they will be required to research, analyze, and comment to better understand various social issues facing Americans.

GLOBAL STUDIES
½ CREDIT GRADE 9
This course covers people, places, and the environment. It explores the development of cultures and their impact on world political systems, economic activities, settlement patterns and population, resource distribution and consumption, and technology development. It is necessary for students to analyze and evaluate their global connections in today's world.

WORLD HISTORY

1 CREDIT GRADE 10

World History 10 will be a study of modern world history. Areas of study include The Early Modern World 1400-1800, Era of European Imperialism 1800-1914, and The Twentieth Century Crisis 1914-1945.

OR

AP EUROPEAN HISTORY

1 CREDIT GRADE 10 WEIGHTED GRADING COURSE

AP European History is a challenging, college-level course that introduces students to the political, economic, religious, social, intellectual, and artistic trends that shaped Europe from 1300 to the present. Students should acquire knowledge of the basic chronology of events and movements from this period as well as develop the ability to analyze historical documents and express historical understanding in writing. Successful completion of this course prepares the student to take the AP European History Examination in May. The exam is a requirement of the course and the cost is covered by the school district.

US HISTORY 11

1 CREDIT GRADE 11

In the first semester of US History, we will study American history from the 1920s through World War II. Units will include social change and prosperity of the 1920s, the stock market crash and the Great Depression, the New Deal, and World War II. In the second semester, a chronological study of history will include all major events that took place between the post-World War II era through the beginning of the 21st century.

OR

AP US HISTORY

1 CREDIT GRADE 11 WEIGHTED GRADING COURSE

Recommendation: This course is recommended for students who have earned a grade of "B" or higher in World History. The AP program in United States History is designed to provide students with the analytical skills and enduring understanding necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Successful completion of this course prepares the student to take the AP US History Examination in May. The exam is a requirement of the course and the cost is covered by the school district.

AMERICAN GOVERNMENT

½ CREDIT GRADE 12

In this course, the student will investigate in detail the importance, function, and mechanics of American government. Included in the study will be the foundations of American Government, concentrating on the executive, legislative, and judicial branches. Government will be studied at the federal, state, and local levels. It will be the purpose of this class to make students aware of the importance of government and the active role each needs to perform as a citizen.

OR

AP US GOVERNMENT AND POLITICS

1 CREDIT GRADE 12 WEIGHTED GRADING COURSE

AP United States Government and Politics aims to give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with the various institutions and their interactions, political participation and socialization, policy formation, and the beliefs and ideas that

constitute U.S. government and politics. Because this course runs for a full academic year, students will earn 1 credit upon successful completion of both semesters. Successful completion of this course prepares the student to take the AP United States Government and Politics Exam in May. The exam is a requirement of the course and the cost is covered by the school district.

CONSUMER ECONOMICS

½ CREDIT GRADE 12

The intent of this course will be to help the individual become a more intelligent consumer and make sound economic decisions in our private enterprise economic system. Some units that will be covered include the following: the role of the government, taxes, comparative systems, the world economy, banking, investments, credit, insurance, consumer skills concerning buying and selling, and rights and responsibilities of the consumer. Required for all seniors.

ELECTIVES

AGRICULTURE ELECTIVES

The Agriculture Program of Laconia High School is designed to give students an opportunity to pursue interests in AGRICULTURE! The agricultural industry in Wisconsin is a $104 billion industry. Within the broad scope of Agriculture Laconia offers six career pathways: Agribusiness Systems, Animal Systems, Food Products, and Processing Systems, Natural Resource Systems, Environmental Service Systems, and Plant Systems. The information learned can be used not only for career exploration but also for life skills and practical knowledge. Facilities include a 50-foot greenhouse.

ANIMALS, PLANTS, AND YOU

1/2 CREDIT GRADES 9-12 OFFERED EVERY YEAR *This one-semester course is a prerequisite to all Agriculture courses

This first-year agriculture course will provide students with the knowledge needed to explore the world of agriculture and FFA. Basic units included: how to become involved in the FFA, the impact agriculture has on us each day, and to take a look at agricultural animals, plants, and natural resources.

Agribusiness Systems Pathway

AGRICULTURE LEADERSHIP, LITERACY, AND HOT TOPICS

½ CREDIT GRADES 9-12 OFFERED EVERY YEAR Ag is everywhere – everyone uses something related to agriculture every day! Would you like to become a leader in the world of agriculture? We need citizens who can communicate effectively about the world of agriculture. In *Agriculture Leadership, Literacy, and Hot Topics* we will address current issues in agriculture, learn to be effective advocates for the ag community, and address the need for young leaders to spread the "good news" about American agriculture. Come join us – ag is in your future. *Students receiving a C+ or better will be eligible for a Wisconsin Youth Leadership Skill Standards Leadership Certificate from DPI.*

FARM BUSINESS MANAGEMENT

½ CREDIT GRADES 10-12 OFFERED EVERY YEAR This course provides the learner with basic business management practices including the development of a business plan, establishment of short and long-range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized. *Students will earn credit from Moraine Park Technical College (or Lakeshore Technical College) if they enroll in the dual credit option and earn a C or better in this. LTC-Farm Business Management, #10006112.*

Animal Systems Pathway

ANIMAL SCIENCE

½ CREDIT GRADES 10-12 OFFERED EVEN YEARS BEGINNING 2022-2023 Students will take a scientific look at domesticated animals beginning with the cell, and discussing the importance of reproduction, genetics, digestion, and nutrition along with the prevention of diseases and parasites. *Students who choose to enroll in the dual credit option and earn a C or better in this course and Livestock Production in the same year will earn credit from Moraine Park Technical College (or Lakeshore Technical College) for LTC-Intro to Animal Science, #10006114.*

HORSES AND PETS

½ CREDIT GRADES 9-12 OFFERED ODD YEARS BEGINNING 2023-2024 This class will focus on cats, dogs, rabbits, guinea pigs, tropical fish, and horses. Students will study reproduction, feeding, general care, housing, and handling techniques for each of the animals.

LIVESTOCK PRODUCTION

½ CREDIT GRADES 10-12 OFFERED EVEN YEARS BEGINNING 2022-2023 Students will study dairy, beef, sheep, pigs, and poultry. The class will focus on selection, anatomy, feeding, reproduction, management, and housing for each of the species. *Students who choose to enroll in the dual credit option and earn a C or better in this course and Animal Science in the same year will earn credit from Moraine Park Technical College (or Lakeshore Technical College) for LTC-Intro to Animal Science, #10006114.*

Food Products & Processing Pathway

ADVANCED FARM TO FORK ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 11-12 OFFERED EVERY YEAR PREREQUISITE: FARM TO FORK
Advanced Food Science will allow students to take a more intense look at the food industry. This class will track agricultural products from the farmer to the consumer. Students will investigate packaging, marketing and the creation of new food products, along with world food needs. Students will also gain a further understanding of food safety and careers in food science.

FARM TO FORK ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12 OFFERED EVERY YEAR Is there a future in agriculture? It all depends on your answer to the following questions: Did you eat today? Are you planning on eating tomorrow? Farm To Fork is the past, present, and future of the agricultural industry. This class will track agricultural products from the farmer to the consumer. Students will investigate key players and trends in the food industry. We will be working with milk, dairy products, fruit, vegetables, meat, poultry, eggs, and more. Students will also gain an understanding of food safety and careers in food science. Check out food from field to table in Farm To Fork.

Natural Resource Systems/Environmental Service Systems Pathways

INTRO TO SOIL SCIENCE

½ CREDIT GRADES 9-12 OFFERED EVERY YEAR Students will investigate the fundamentals of soil's physical, chemical, and biological properties. Students will also study soil formation, classification, essential soil nutrients, and learn how to take a soil survey and interpret the results. There will be an emphasis on soil and water conservation practices and the reduction of soil erosion. *Students who choose to enroll in the dual credit option and earn a C or better will earn credit from*
Moraine Park Technical College (or Lakeshore Technical College) for LTC-Intro to Soil Science, #10006116.

NATURAL RESOURCE SCIENCE

½ CREDIT GRADES 9-12 OFFERED EVERY YEAR In this one-semester class, you will get hands-on experience dealing with careers in the natural resource area. Natural resources that will be included in this class will be forestry,

water quality, air quality, waste management, and survival skills.

WILDLIFE MANAGEMENT AND OUTDOOR RECREATION
½ CREDIT GRADES 9-12 OFFERED EVERY YEAR Attention hunters, fishermen, and enjoyers of wildlife. This course will cover the various aspects of wildlife including birds, small game, fish, and big game management. Other aspects of consideration include science and technology in wildlife management and enjoying wildlife in addition to citizen responsibilities. Students will perform a variety of experiments dealing with wildlife concepts through class discussion, labs, and outdoor activities.

Plant Systems Pathway

FLORAL DESIGN AND LANDSCAPING ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12 OFFERED ODD YEARS BEGINNING 2023-2024 Students will learn the principles of floral design and landscape that can be used not only for a career in these industries but as a homeowner. Students will apply their skills in flower arranging with both fresh and silk flowers. They will also design their own outdoor landscape. *Students who choose to enroll in the dual credit option and earn a C or better in this course AND Plant Science in the same school year will earn credit from Moraine Park Technical College (or Lakeshore Technical College) for LTC-Intro to Horticulture 10001110.*

PLANT SCIENCE ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12 OFFERED EVERY YEAR In this one-semester class, you will get hands-on experience growing plants in the greenhouse. Students will learn to identify and grow vegetables, flowering, and foliage plants. You will even learn how to start plants without seeds. Students will work as a team to design a plant sale. *Students who choose to enroll in the dual credit option and earn a C or better in this course AND Floral Design and Landscaping or Vegetable and Crop Production in the same school year will earn credit from Moraine Park Technical College (or Lakeshore Technical College) for LTC-Intro to Horticulture 10001110 or Principles of Crop Production 10006122.*

VEGETABLE AND CROP PRODUCTION
½ CREDIT GRADES 9-12 OFFERED EVEN YEARS BEGINNING 2022-2023 Students will learn about vegetable crops. Other Wisconsin grown crops will include small grains, forages, corn, and soybeans. Students will learn how each crop is grown, harvested, stored, and marketed. *Students who choose to enroll in the dual credit option and earn a C or better in this course AND Plant Science in the same school year will earn credit from Moraine Park Technical College (or Lakeshore Technical College) for LTC-Principles of Crop Production 10006122.*

Capstone for all pathways

ADVANCED CONCEPTS IN AGRICULTURE
½ CREDIT GRADES 11-12 OFFERED EVERY YEAR PREREQUISITE: PERMISSION FROM INSTRUCTOR
This class is designed for juniors or seniors who are interested in expanding their knowledge in agricultural areas, beyond the available classes offered. This is for students who have completed all available classes in their interest area, or who have an interest in an area not offered in the curriculum. Prerequisite: All available courses in the specific area, and **CONSENT OF THE INSTRUCTOR**. Advanced concepts: Advanced Greenhouse Management, Advanced Animal Science, Advanced Veterinary Science, Agricultural Leadership Development, Agriscience, Biotechnology in Agriculture, Advanced Conservation, Natural Resources, and Ecology, Advanced Agricultural Engineering, Advanced Agricultural Structures and Design, Advanced Agribusiness Management.

ART ELECTIVES

ART SURVEY **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12**
**This class is the Prerequisite for all art classes except Digital Imagery
Art Survey gives students an opportunity to explore many art mediums. We will be learning new drawing techniques, design elements, painting basics, fibers, sculpture, and calligraphy. Weekly sketchbook assignments will be assigned to explore areas in drawing and creativity. A 50-page sketchbook is provided.

ART STUDIO **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 11-12**
PREREQUISITE: ART SURVEY AND AT LEAST ONE OTHER ART CLASS
Art Studio allows junior and senior art students to explore art concepts and materials on an individual basis. Students can work in all 2D and 3D mediums including but not limited to Drawing, Painting, Ceramics, Fused Glass, Photography, Printmaking, Screen Printing, Textiles, and Jewelry Making. Students will also learn how to prepare an art portfolio for college admissions. Art Studio may be taken twice.

CERAMICS I **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12**
PREREQUISITE: ART SURVEY
This class is an introduction to working with clay. Students will produce artwork by hand (pinch, coil, slab, sculpting, and on the potters' wheel. Students will create a wide variety of ceramic projects.

CERAMICS II **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12**
PREREQUISITE: CERAMICS I
This course is a further exploration of ceramics, both hand-built and wheel-thrown, with more emphasis on technique and individuality.

CERAMICS III **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12**
PREREQUISITE: CERAMICS II
This course is a further exploration of ceramics, both hand-built and wheel-thrown, with more emphasis on technique and individuality.

DIGITAL IMAGERY I **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12**
Focuses on learning photo editing and manipulation software. Students learn the elements of art, principles of design, and composition. Students will learn imaging techniques and digital manipulation using Adobe CC and other open-source programs. They will learn how to creatively alter images for print or web purposes. Students will also explore Adobe Illustrator and Adobe Premiere to learn basic illustration, animation, video production, and new digital art skills.

DIGITAL IMAGERY II **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12**
PREREQUISITE: DIGITAL IMAGERY I
Digital Imagery II is a more in-depth exploration of the technical, artistic, and commercial aspects of digital art. Students will refine and improve techniques of image manipulation.

DIGITAL IMAGERY III **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12**
PREREQUISITE: DIGITAL IMAGERY II
Digital Imagery III is a further exploration of the technical, artistic, and commercial aspects of digital art. Students will continue to refine and improve techniques of image manipulation.

DRAWING AND DESIGN **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12**
PREREQUISITE: ART SURVEY
This course is an introduction to drawing and design. Drawing units will cover perspective, gesture, contour, figure, still life, and landscape drawing. Design problems will cover two-dimensional and three-dimensional compositions. Weekly sketchbook assignments will be given to further explore basic art elements. A 50-page sketchbook is provided

GRAPHICS ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12
PREREQUISITE: ART SURVEY
This class explores art and technology. Students will learn to use design to communicate ideas. Students will explore the various methods used to combine words, symbols, and images in graphic design. Students will learn how to use Adobe Photoshop and Adobe Illustrator. Students will also learn several traditional printmaking methods including Soft-kut linoleum, drypoint etching, and serigraphy (silkscreen printing).

PAINTING I ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 9-12
PREREQUISITE: ART SURVEY
This course is an introduction to painting, stressing techniques, color theory, art history, and the elements of art and principles of design. Students will be working with watercolors, tempera, and acrylic paints. Students will also learn how to stretch canvas.

PAINTING II ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12
PREREQUISITE: PAINTING I
This course is a further exploration of painting with more emphasis on technique and individuality. Students will build their own canvases to paint on.

PAINTING III ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12
PREREQUISITE: PAINTING II
This course is a further exploration of painting with more emphasis on technique and individuality. Students will build their own canvases to paint on.

BUSINESS ELECTIVES

ACCOUNTING

1 CREDIT GRADES 10-12 OFFERED ODD YEARS BEGINNING 2023-2024 Accounting is a one-year introductory course in which students will learn basic accounting rules and procedures. This course is highly recommended for anyone wishing to pursue a business-related or accounting career. Students will learn the basic accounting cycle for a sole proprietorship (single owner) business, and a merchandising corporation by completing real-world accounting applications. Students will complete accounting simulations, which provide applications of the basic accounting rules and procedures. *Students who choose to enroll in the transcripted credit option and earn a C or better will earn credit from Moraine Park Technical College in course #102-110, Introduction to Business.*

BUSINESS LAW AND ETHICS

½ CREDIT GRADES 10-12 OFFERED EVEN YEARS BEGINNING 2022-2023 The Business Law and Ethics course provides students with an overview of the importance of ethics in a business environment. Students focus on the significance and importance of ethics to the community; examine who bears responsibility for ensuring an ethical code is followed; and explore ethical situations common in organizations. The course examines ethics through the lens of various business disciplines and considers the impact of organizational culture on ethical practices. The course also explores ethics as social responsibility, the evolution of ethics as business becomes more international, and how the free market and organizational ethics can co-exist. This course will discuss current controversial issues at the intersection of business, law, and ethics.

BUSINESS MANAGEMENT

½ CREDIT GRADES 10-12
Business Management is an excellent class for any student wishing to pursue a business career. This course focuses on entrepreneurship and the management of a business. The student will learn about human resources management, employee/employer relations, leadership, supervision, planning, organizing, and controlling a business, as well as dressing for success. In addition, the course will deal with the ever-changing world of international business. Students will explore business practices in other countries and learn about how different cultures and traditions influence the scope of business around the world.

BUSINESS MARKETING

½ CREDIT GRADES 10-12

Currently, ONE out of every six adults is employed in a marketing occupation! Business Marketing is a course that introduces students to the dynamic world of marketing goods and services. Applications of the four P's in marketing—product, price, place, promotion—are explored through various hands-on projects. Pizza taste testing, creating advertisements, developing a showcase to promote an LHS made product, and developing a cause campaign (aimed at raising awareness to a social cause - for example stopping texting and driving) are worked on throughout the semester. Whether students are planning on attending a four-year college, a two-year technical school, or going immediately into the workforce, marketing can help develop skills that will enable them to be competitive and succeed in the future.

CAREER DEVELOPMENT

½ CREDIT GRADES 10-12

This course will provide students the opportunity to explore career pathways and career development plans in order to create an action plan to meet their long-term goals. Students will also learn how to effectively interview and will complete a mock interview experience. Students will also have the opportunity to speak to several guest speakers in different careers who will come in to speak throughout the semester. Students will also be assisted in finding a job shadow experience, internship, or mentor experience.

ENTREPRENEURSHIP COURSE

½ CREDIT GRADES 11-12 OFFERED ANNUALLY FALL SEMESTER

PREREQUISITE: GENERAL BUSINESS OR BUSINESS MANAGEMENT

This course helps students gain an understanding of the business principles necessary to start and operate a business. Students will develop an awareness of small business ownership opportunities and develop a business plan Students will research several small businesses in the community and explore what makes them successful. Additionally, students will perform financial analysis, develop marketing strategies, and explore website management by operating the school store.

Students who complete this course may apply for the School Store Work Experience for Spring Semester.

GENERAL BUSINESS

½ CREDIT GRADES 9-12

RECOMMENDATION: This course is recommended as a prerequisite to all other business courses. General Business is an introduction to the business world and presents the occupational opportunities in the area of business. Topics covered include business economics as well as a glimpse into each of the functional business areas (Human Resources, Marketing, Finance, and Operations). Current business topics in magazines, newspapers, and on TV are discussed on the local, state, national, and international levels. Students will complete a cumulative project creating a food truck experience.

INTRODUCTION TO BUSINESS (DUAL CREDIT: 3 CREDITS MPTC)

1 CREDIT GRADES 11-12 OFFERED EVEN YEARS BEGINNING 2022-2023 This course further introduces students to the world of business. This course examines the areas of business such as human resources, operations management, financial management, and marketing. It provides students an overview of the types of business ventures available and the advantages and disadvantages of each. Although this course is titled "Introduction to Business" this is not an entry-level high school course. Students in this course will also find and complete business services for local businesses or not-for-profit organizations to gain experience with a hands-on approach while also building relationships. Projects have ranged from creating business cards, updating pamphlets, or creating social media advertisements. Students who choose to enroll in the transcripted credit option and earn a C or better will earn credit from Moraine Park Technical College in course #102-110, Introduction to Business.

MICROSOFT APPLICATIONS
½ CREDIT GRADES 9-12

The knowledge of computers is a must for students in today's society and business environments. This course is designed to familiarize students with one of the most requested skills in business, knowledge, and proficiency in Microsoft Office Suite: Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. Other software programs may be explored if time permits. The focus is on preparing the student for the Microsoft certification exam. At the end of the course, students will complete the certifications exams for Word, Excel, and Powerpoint.

SCHOOL STORE WORK EXPERIENCE
½ CREDIT GRADES 11-12 OFFERED ANNUALLY SPRING SEMESTER

PREREQUISITE: ENTREPRENEURSHIP & TEACHER APPROVAL THROUGH AN APPLICATION PROCESS & INTERVIEW

Students in this class will manage the Laconia Locker school store. This unique, job-based course is designed for you if you are interested in a marketing/business career. As a select group of interns/managers (approximately two students) of a school-based enterprise, you will receive hands-on experience in a retail and management environment. Roles and duties include general management, merchandising, sales and promotions, and financial management. Throughout this work experience, individual efforts and teamwork are essential. Students will benefit from this opportunity if they are interested in continued education at a technical or four-year college pursuing business training or entering the workforce. **Student managers will be compensated with a percentage of profit.**

COMPUTER SCIENCE ELECTIVES

AP COMPUTER SCIENCE A (JAVA)
1 CREDIT GRADES 11-12

PREREQUISITE: AP COMPUTER SCIENCE PRINCIPLES OR COMPLETION OF PRE-CALCULUS

Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem-solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction. This class is very programming-heavy and should be taken by students who plan on going into computer science and already have a background in coding. Successful completion of this course prepares the student to take the AP Computer Science A (JAVA) Exam in May. The exam is a requirement of the course and the cost is covered by the school district. While this course may earn math credit to count towards high school graduation, not all colleges/universities will accept it as math credit for admission.

AP COMPUTER SCIENCE PRINCIPLES
1 CREDIT GRADES 10-12

PREREQUISITE: EXPLORING COMPUTER SCIENCE OR COMPLETION OF ALGEBRA 2

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world. Successful completion of this course prepares the student to take the AP Computer Science Principles Exam in May. The exam is a requirement of the course and the cost is covered by the school district. While this course may earn math credit towards high school graduation, not all colleges/universities will accept it as math credit for admission.

EXPLORING COMPUTER SCIENCE
1 CREDIT GRADES 9-12

PREREQUISITE: ALGEBRA I

Exploring Computer Science (ECS) is a course designed to introduce students to the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular

problems. The goal of Exploring Computer Science is to develop in students the computational practices of algorithm development, problem-solving, and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues.

EDUCATION ELECTIVE

STUDENT MENTOR

½ CREDIT GRADES 11-12

A student mentor would be a student who is willing to act as a tutor or study partner for other students. A mentor would be assigned one class period for this purpose. A student may choose to act as a mentor each semester. Mentoring may be done at either the high school, primary, or intermediate school. To qualify as a student mentor, interested students should have a minimum 3.5 cumulative GPA, be willing to tutor in all subject areas, and/or have approval by the principal and/or school counselor

ENGLISH ELECTIVES

CREATIVE WRITING

½ CREDIT GRADES 9-12 OFFERED EVEN YEARS BEGINNING 2022-2023 This course gives students the opportunity to enhance their creative thinking skills through various forms of writing they are only briefly exposed to through the required English classes. In this course, students will write in different styles and forms for a variety of audiences. Students will also have the opportunity to submit their work for publication. Fiction and non-fiction pieces, with an emphasis on novella and technology, will be used.

PUBLICATIONS AND YEARBOOK

1 CREDIT GRADES 10-12

Recommendation: This course is recommended for students with strong writing skills and an ability to work as part of a team. Students wishing to participate in the publication of the school yearbook and the school district's newspaper should enroll in this course. These enormous undertakings involve managing finances, marketing, desktop publishing, writing, interviewing, and photography. Participants must be devoted to creating excellent products, staying organized, meeting and interviewing fellow students, attending school events, and working hard to meet deadlines. Students may retake the class every year.

MOVIES AND MEDIA

½ CREDIT GRADE 9-12 OFFERED ODD YEARS BEGINNING 2023-2024 This elective course allows students to explore the media they encounter in their everyday lives, including social media, TV and movies. Students will explore important media issues, such as persuasive techniques, visual and storytelling methods, media genres and media social issues. Coursework will involve critically watching media, writing short analytical papers, giving small presentations, and working collaboratively on media projects.

SPEECH

½ CREDIT GRADE 11-12

This class is designed to help develop students' interpersonal and oral communication skills. Students will have the opportunity to develop necessary job-related skills such as working as a team, managing time effectively, thinking critically, and problem-solving by practicing skills like creating outlines, citing sources, placing visuals, practicing nonverbal gestures and movement, and organizing speeches to achieve a certain goal and reach a specified audience. During the course, students will work on a variety of subjects with classmates as well as work on individual assignments. Students will give two individual presentations and one group presentation; one

presentation will be persuasive and the others informative. Though grade 11 students will be allowed to take the course, **ONLY** students in grade 12 may receive college credit, and students may **NOT** retake the class their senior year. ***Seniors*** *who choose to enroll in the dual credit option may receive credit for the class Oral and Interpersonal Communication (801-196) from Fox Valley Technical College if they receive an 80% or better. Oral and Interpersonal Communication is guaranteed to transfer to all colleges in the UW system and may be accepted at other colleges as well.*

FOREIGN LANGUAGE

SPANISH

Throughout the study of Spanish, we will read about the people of Spanish speaking countries – their history, geography, and customs. These readings will almost all be done in Spanish. There are extra credit and enrichment activities available at all levels. Some years students may choose to travel to a Hispanic country. Learning a language is progressive and requires constant reinforcement for mastery. For this reason, it is suggested that a student takes each level in consecutive years, chronologically.

SPANISH I

1 CREDIT GRADES 9-12

The students will experience an introduction to the Spanish language emphasizing Latin American pronunciation. The students will learn basic sentence patterns and use them in oral and written work. They will work on oral and written comprehension and learn the present tense of regular and irregular verbs. Expectations are that the student is interested in achieving a level of comfort with greetings, expressions of courtesy, and beginning vocabulary used in the classroom, school, and family setting. Mastery of basic Spanish grammatical forms and pronunciation will be emphasized.

SPANISH II

1 CREDIT GRADES 10-12

PREREQUISITE: SPANISH I

The goal of Spanish II is to encourage the students to develop a higher degree of fluency in reading, writing, and speaking Spanish (ability to interact in the real world). Expectations are that the student is interested in attaining some degree of fluency and class activities push students to immerse themselves in the language. Some of the areas of study are pastimes, vacations, travel, clothing/stores, daily routine, and food. We will work on the difference between the past tenses--preterit and imperfect--and when and how to use them. We will also learn the progressive tenses to say things like, “I am working.”

SPANISH III

1 CREDIT GRADES 11-12

PREREQUISITE: SPANISH II

The goal of Spanish III is to encourage the students to use their attained fluency in reading, writing, and speaking Spanish even more on a daily basis. Expectations are that the student will use Spanish as often as possible in everyday situations and grammar becomes more difficult. Fluency will increase as the students review preterit, imperfect, and other indicative tenses and learn the present subjunctive and commands. Topics of study vary, covering relationships, “diversions” , daily life, health, and well-being. Authentic literature and films are used to immerse students in the culture and language. Students will practice more short-answer writing.

SPANISH IV

1 CREDIT GRADE 12

PREREQUISITE: SPANISH III

The goal of Spanish IV is to encourage the students to use their attained fluency in reading, writing, and speaking Spanish even more so on a daily basis. Expectations are that the student will use Spanish as often as possible in everyday situations. Fluency will increase as the students review preterit, imperfect, and other indicative tenses and use the present subjunctive and commands. Passive voice, reflexive verbs, past perfect tense, subjunctive are all reviewed. More verb tenses covering present and past perfect, conditional, and future are also studied, as well as past subjunctive. Cultural topics of study vary. Authentic literature and films are again used to immerse students in the

culture and language. Students will again practice short-answer and writing.

MATHEMATICS ELECTIVES

AP CALCULUS AB

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADE 12 WEIGHTED GRADING COURSE

PREREQUISITE: PRE-CALCULUS

This course is equivalent to one semester of college calculus. The main topics are integration and differentiation and their applications. Successful completion of this course prepares the student to take the Calculus AB Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school.

AP COMPUTER SCIENCE A (JAVA)

1 CREDIT GRADES 11-12

PREREQUISITE: AP COMPUTER SCIENCE PRINCIPLES OR COMPLETION OF PRE-CALCULUS

Computer Science A emphasizes object-oriented programming methodology with an emphasis on problem-solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction. This class is very programming-heavy and should be taken by students who plan on going into computer science and already have a background in coding. Successful completion of this course prepares the student to take the AP Computer Science A (JAVA) Exam in May. The exam is a requirement of the course and the cost is covered by the school district. While this course may earn math credit to count towards high school graduation, not all colleges/universities will accept it as math credit for admission.

AP COMPUTER SCIENCE PRINCIPLES

1 CREDIT GRADES 10-12

PREREQUISITE: EXPLORING COMPUTER SCIENCE OR COMPLETION OF ALGEBRA 2

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world. Successful completion of this course prepares the student to take the AP Computer Science Principles Exam in May. The exam is a requirement of the course and the cost is covered by the school district. ** While this course may earn math credit towards high school graduation, not all colleges/universities will accept it as math credit for admission. **

ALGEBRA II

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 10-12

PREREQUISITE: GEOMETRY

This course is a continuation of Algebra 1. Topics include properties of real numbers, order of operations, algebraic solution for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, and algebra of inverse, logarithmic and exponential functions. Students who earn a C or better in this class and choose to enroll in the transcripted credit option will earn 4 credits from Moraine Park Technical College for the course 804-118 Intermediate Algebra with Applications.

CONSUMER MATH

1 CREDIT GRADES 11-12

PREREQUISITE: GEOMETRY AND TEACHER RECOMMENDATION.

STUDENTS THAT HAVE PREVIOUSLY TAKEN ALGEBRA II ARE NOT ELIGIBLE TO TAKE THIS COURSE This course will cover many personal finance topics including Checking, Saving, Types of Credit, Managing Credit,

Budgeting, Investing, Financial Pitfalls, Career Readiness, and Insurance.

FINANCIAL ALGEBRA

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 11-12

PREREQUISITE: ALGEBRA II

Financial Algebra is a course that will use mathematics to give you the tools to become a financially responsible young adult. The course employs Algebra, Pre-Calculus, probability and statistics, Calculus and Geometry to solve financial problems that occur in everyday life. Real-world problems in investing, credit, banking, auto insurance, mortgages, employment, income taxes, budgeting, and planning for retirement are solved by applying the relevant mathematics. Field projects, computer spreadsheets, and graphing calculators are key components of the course.

PRE-CALCULUS

A TI-83 or TI-84 graphing calculator is required for this course.

1 CREDIT GRADES 11-12

PREREQUISITE: ALGEBRA II

Pre-Calculus is an advanced course designed for college preparation. It contains work from Probability and Statistics and Trigonometry. This course reviews topics from Algebra and prepares students for their first college math course.

MUSIC

Please note performance requirements for all performance-based **vocal and instrumental music classes** include school concerts, pep band, occasional extra performance as community service, and several private and/or small group voice or
instrument lessons. Solo-Ensemble participation is elective for all choral and instrumental students. However, large ensemble participation on Solo-Ensemble day may be required in advanced choral classes, concert band, jazz lab, and symphonic band. Elective solo/ensemble participants are required to pay a fee as established by the Rosendale-Brandon Board of Education.

ADVANCED TREBLE CHORUS

1 CREDIT GRADES 9-12

This group of treble voices meets daily. Students will sing a variety of genres of choral music, including music from different time periods and languages. Consent of the instructor is required for this course.

CONCERT BAND

1 CREDIT GRADES 9-10

Concert Band is a year-long course open to any student (grades 9-10) with previous instrumental music experience. Students will participate in pep band, marching band, and concert band performances. A wide variety of music for winds and percussion will be studied and performed throughout the year. Attendance at all performances is required. Bi-Annual field trips are offered to interested students.

INTERMEDIATE GUITAR ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 10-12

PREREQUISITE: INTRODUCTION TO PLAYING GUITAR

This one-year course is designed for students who have successfully completed the skills outlined in the Introduction to Guitar course description and have received an average grade of B or better for both semesters. This course includes further development of the skills necessary to become independent as a guitarist and emphasizes the development of style, articulation, dynamics, rhythmic ability, and skills inherent to performance. Areas of concentration include correct posture, note reading, aural skills, flat-picking, singing and strumming songs in syncopated strumming patterns, second position chord study, fingerpicking styles, musical forms, improvisation, and performing experiences. A progression of technical proficiency is expected. Performances may be required and are strongly encouraged.

INTRODUCTION TO PLAYING GUITAR **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 9-12**

This course is open to any student interested in learning basic acoustic guitar playing skills. This class is aimed at students who are interested in music that may or may not be currently enrolled in other music courses. The objective of the course is to teach students introductory skills that apply to all areas of guitar playing and to equip them with the tools for learning any genre of their interest. Topics include instrument care, note and rhythm reading, strumming, fingerpicking, chord progressions, and songwriting. Performances may be required and are strongly encouraged.

JAZZ LAB

1 CREDIT

AUDITION ONLY: SEE BAND DIRECTOR

Students are selected for this performing group by audition. Public performances outside of school and on weekends will be scheduled. Students are expected to attend all these events. Students must be enrolled in concert band or symphonic band to perform in the jazz ensemble unless they have special permission from the director.

LACONIA SINGERS

1 CREDIT GRADES 9-12

This group of mixed voices meets daily. Students will sing a variety of genres of choral music, including music from different time periods and languages.

SYMPHONIC BAND

1 CREDIT GRADES 11-12

Symphonic Band is a year-long course open to any student (grades 11-12) with previous instrumental music experience. Students will participate in pep band, marching band, and concert band performances. A wide variety of music for winds and percussion will be studied and performed throughout the year. Attendance at all performances is required. Bi-Annual field trips are offered to interested students.

PHYSICAL EDUCATION ELECTIVES

The Physical Education Department, as well as the Rosendale-Brandon School District, has committed to prepare students to live healthy, productive, and physically active lives for the 21st Century. Therefore, ● Physical education will provide every student with a variety of challenges that will contribute to the development and maintenance of their physical, cognitive, and affective well-being.

Students will be provided with the foundation for making informed decisions that will empower them to achieve and maintain a healthy lifestyle.Physical Education is a life-long process, which is the primary responsibility of the student, shared by home, district, and community.

All classes can be taken as a required class or as an elective, but students can only take one Physical Education Course per semester. Courses are offered based on student requests; therefore, if there are not enough student requests to run a course, students may have to choose an alternate physical education class to satisfy their physical education requirement. Courses will be filled with students needing the course to fulfill a physical education requirement first, and elective choice requests second, where room permits.

PERSONAL WELLNESS AND FITNESS

½ CREDIT GRADES 9-12

Students in this class will be part of a **non-competitive** class structure. Students will participate in a variety of group and individual workouts such as circuit training, aerobics, yoga, weight training, etc. They will also have the option to create and implement a self-designed workout program to follow on a daily basis. Through these activities, students will learn the knowledge and skills needed to develop and maintain a lifetime of optimal

health and fitness. There will also be low level/non-competitive games (Disc Golf, Badminton, Snowshoeing, Volleyball, Ping Pong, etc) played in this class one or two days per week for the students that do not create their own personal fitness/wellness program. The following components are included: physical fitness testing (pre/post), various fitness activities, non-competitive games that promote being active, personal habits, nutritional awareness, stress management, and environmental factors that influence one's health. The class will consist of 1-2 game days and 3-4 workout days per week. **Pre/Post Fitness and skill testing will be conducted. All students will also be required to complete any assignments in Google Classroom by the required due date.**

STRENGTH-SPEED-AGILITY

½ CREDIT GRADES 9-10 AND GRADES 11-12

The course is designed to provide students with a basic-advanced understanding of weight training, speed training, and performance-based fitness as it applies to a healthy lifestyle and improved performance. Students will be taught how to design a personal fitness program that incorporates cardiovascular training and resistance training. There will also be nutritional information provided. This class is designed for male and female students and athletes who want to take their performance to the next level or for any student who wants to take his/her personal fitness to an optimal level. There will be NO games played during this class. The class will consist of 5 workout days per week. **Pre/Post Fitness and skill testing will be conducted. All students will also be required to complete any assignments in Google Classroom by the required due date.**

TEAM SPORTS/FITNESS

½ CREDIT GRADES 9-10 AND GRADES 11-12

This class involves fitness/group training sessions, competitive ball related sports, and net games where teamwork and sportsmanship will be emphasized. The weight room will not be utilized for this class as all workouts will be done as a class in the gymnasium. A typical week will generally include two workout days and three game/sport-related days. However, the instructor can make modifications to this schedule as needed. Some activities include soccer, basketball, ultimate frisbee, volleyball, hockey, disc golf, and much more. **Pre/Post Fitness and skill testing will be conducted. All students will also be required to complete any assignments in Google Classroom by the required due date.**

SCIENCE ELECTIVES

AP BIOLOGY ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12 WEIGHTED GRADING COURSE

PREREQUISITE: CHEMISTRY

The AP Biology course is designed to be the equivalent of a college introductory course. 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. Students taking AP Biology may receive credit and advanced placement at most colleges upon successfully completing the advanced placement examination. The advanced placement course will emphasize laboratory and individual study. Areas of study and experiment range from molecules and cells to genetics and evolution, to organisms and populations. Experiments may include the areas of organic molecules and enzymes, molecular and Mendelian genetics, comparative vertebrate anatomy and physiology, plant anatomy and physiology, and ecology. Due to the volume of material that is needed to be covered, **a summer assignment will be required to be completed prior to the start of school. Additionally, students will need to attend class on two Saturdays in order to complete extended lab requirements.** Successful completion of this course prepares the student to take the Biology Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school.

AP CHEMISTRY ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12

PREREQUISITE: CHEMISTRY AND ALGEBRA 2 OR ADVANCED ALGEBRA 2

Recommendation: It is recommended that students have earned a grade of "B" or better in each of the prerequisite courses. This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the course enables them to undertake, as a freshman, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning

skills. Successful completion of this course prepares the student to take the Chemistry Advanced Placement Examination in May. The exam is a requirement of the course and the cost is covered by the school. **Students may be required to complete assignments over summer break before the first day of school.**

CHEMISTRY **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 10-12**
PREREQUISITE: BIOLOGY, GEOMETRY OR TEACHER RECOMMENDATION
Recommendation: C or better in Geometry
Chemistry is the study of matter and how it changes. By studying chemistry, you will discover how some of the smallest particles in the universe interact and are able to come together to form all of the matter that you see (and don't see) around you. Some topics covered in Chemistry are the structure of the atom, periodicity, chemical bonding and reactions, stoichiometry, reaction rates, and nuclear reactions. Math is used frequently in Chemistry, so a scientific or graphing calculator is required.

ENVIRONMENTAL GEOLOGY
1 CREDIT GRADES 10-12
This course will focus on the function of the Earth's systems. Emphasis is placed on human interactions with Earth's geologic and environmental systems. This class will help students develop an awareness of the scientific and social-environmental problems facing planet Earth, along with the history of the Earth. Topics of study include astronomy, mapping, rocks, plate tectonics, volcanoes, earthquakes, water, weather, and geologic time. Students will complete many online activities and a few hands-on activities in order to explore the concepts being studied.

FORENSIC SCIENCE **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12**
This course is designed to introduce the student to practical applications of Chemistry, Physics, and Biology in the study of forensics. This course will provide students with an introduction to the understanding and practical application of forensic science techniques including forensic evidence collection and examination, crime scene investigations, forensic entomology, forensic anthropology, forensic toxicology, drugs and poisons, ballistics, bloodstain pattern analysis, DNA typing, understanding of the relationship between forensic science and legal studies, and career opportunities in forensics. Grades will be based on a combination of labs, projects, and written tests.

HUMAN ANATOMY AND PHYSIOLOGY **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12**
PREREQUISITE: CHEMISTRY
This class is a one year course that examines the concepts of human anatomy and physiology. Students in this class will gain knowledge of the location, structure, and function of human anatomical structures such as bones, muscles, nerves, and blood vessels. Through the use of laboratory investigations and practicals, models, online sources, and multi-functional worksheets, students will memorize human anatomy. The physiology portion of the class will study the functions of the anatomy students learn and ask the question, "How do the parts of the body work?". Students will also gain knowledge about real-world applications of anatomy and physiology through their studies. Additionally, this course includes dissections which will help students to visualize the anatomy. The capstone for this course includes the opportunity for students to visit a cadaver lab.

PHYSICS
1 CREDIT GRADES 11-12
PREREQUISITE: ALGEBRA II
Physics is the study of matter and energy in space and time. Some topics covered in Physics are linear and non-linear motion, forces, sound, optics, and electricity. Physics students at Laconia High School participate in many hands-on activities, labs, and problem-solving sessions. Physics is a math-based course, so a scientific or graphing calculator is required.

SOCIAL STUDIES ELECTIVES

ANCIENT WORLD HISTORY
½ CREDIT GRADES 9-12

This is a survey course, which will highlight major civilizations, events, and individuals that have had a lasting impact throughout history. Early cultures that will be studied include Ancient Egypt, Greece, Rome, and several others. Individuals will include Alexander the Great, Caesar, Hannibal, etc.

CURRENT EVENTS
½ CREDIT GRADES 9-10

This class will keep you informed about the news and stories affecting your life. Activities will include Internet research, news games and competitions, oral reports, discussions, and lectures. Because the scope of the course changes each semester, students can take the class anytime from their freshman through senior years, if they wish. This class is open to freshmen and sophomores and can be taken either semester or both semesters; however, to encourage variety in your educational career, the department recommends taking this class a maximum of one semester per year.

CURRENT EVENTS
½ CREDIT GRADES 11-12

This class will keep you informed about the news and stories affecting your life. Activities will include Internet research, news games and competitions, oral reports, discussions, and lectures. Because the scope of the course changes each semester, students can take the class during both their junior and senior years, if they wish. This class is open to juniors and seniors and can be taken either semester or both semesters; however, to encourage variety in your educational career, the department recommends taking this class a maximum of one semester per year.

ECONOMIC FOUNDATIONS
½ CREDIT GRADES 11-12

This class is an advanced survey course dealing with the study of economics. All major aspects of economics will be covered; for example, scarcity, supply, and demand, competition, markets, distribution of income, national income and debt, effects on the economy, introduction to macro-and micro-economics.

EXPLORING SOCIAL STUDIES
½ CREDIT GRADES 11-12

Scandals, lies, and mystery! Get your fill and more in Exploring Social Studies. ESS is a class designed to expose students to a variety of social studies topics. The course will cover issues related to psychology, sociology, history, government, and more. ESS students will be exposed to subjects and activities that will range from gangsters and outlaws to dead presidents and criminal minds. Due to the flexibility of the curriculum, students may sign up for as many semesters as they wish.

SOCIAL PSYCHOLOGY
½ CREDIT GRADES 11-12

This course is an introduction to psychology with an emphasis on understanding social relationships, personality, social behavior, motivation, feelings, and intelligence as it relates to the individual student. Students will discover new ways of looking at and interpreting their own behaviors. This is a one-semester course open to juniors and seniors, with seniors getting the first choice.

TECHNOLOGY EDUCATION

EXPLORING TECHNOLOGY ****Prerequisite for all Technology Education courses** **1 CREDIT GRADES 9-12**
ADDITIONAL FEE REQUIRED If you enjoy active, hands-on learning, then this is the class for you. In this class, you will plan and build projects using different materials and machinery. Emphasis is on problem-solving, design, critical thinking, and collaboration. Students planning on taking technology education classes at Laconia High School must start with this exploratory class. In addition to the required fee for maintaining equipment, you will also be expected to purchase materials for the personal projects that you will be building.

ADVANCED CONSTRUCTION **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 11-12**
PREREQUISITE: CONSTRUCTION TECHNOLOGY I & II
Advanced Construction may be taken after successful completion of Construction I & II. The intent of this course is to allow students who are interested in the career field to explore some of its opportunities while participating in a capstone project. Students are allowed to enroll in Advanced Tech classes for more than one semester. In addition to the required fee for maintaining equipment, you will also be expected to purchase materials for the personal projects that you will be building.

ADVANCED MANUFACTURING **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 11-12**
PREREQUISITE: MANUFACTURING
This course will advance student's skills in the manufacturing and engineering fields and will present many problem-solving challenges. The main focus of this course is designing and building Project Grill with an emphasis on welding and metalworking skills. *Upon successful completion of this course with a "C" or better, students who choose to enroll in the transcripted credit option will earn credit for Moraine Park Technical College's "Welding Theory & Safety" course #442-337 and "Gas Metal Arc Welding" course #442-357.* Because it is a college-level course, students should expect challenging material and regular homework. Students are allowed to enroll in Advanced Tech classes for more than one year, but will only receive MPTC credit once.

CONSTRUCTION TECHNOLOGIES I **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12**
This course is an introduction to some of the structural design and techniques in residential and commercial construction. Students will be given instruction on project-planning techniques, as well as safe and proper use of hand and power tools. Projects are assigned so the student gains problem-solving skills and learns proper construction techniques. In addition to the required fee for maintaining equipment, you will also be expected to purchase materials for the personal projects that you will be building.

CONSTRUCTION TECHNOLOGIES II **ADDITIONAL FEE REQUIRED**
½ CREDIT GRADES 10 – 12
PREREQUISITE: CONSTRUCTION TECHNOLOGIES I
This course is a further exploration of the structural design and techniques in residential and commercial construction. Students will be introduced to various systems and careers in the construction industry. In addition to the required fee for maintaining equipment, you will also be expected to purchase materials for the personal projects that you will be building.

INTRODUCTION TO ELECTRONICS AND ELECTRICITY **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12**
OFFERED EVEN YEARS BEGINNING 2020-2021 Through a combination of written work and laboratory experiences, this course provides a general overview of electricity and electronics. Students will study Electrical theory, Ohm's Law, residential wiring, automotive wiring, and electronic circuits. There will also be activities and discussion of alternative energies such as wind and solar. Upon successful completion of this course with a "C" or better, students who choose to enroll in the

transcripted credit option will earn credit for Moraine Park Technical College's "Beginning Electrical Concepts" course #413-350.

MANUFACTURING TECHNOLOGY **ADDITIONAL FEE REQUIRED 1 CREDIT GRADES 10-12**
This course introduces the basics of design, welding, fabrication, machining, and manufacturing. In this class, students will engage in problem-solving challenges that encourage creative thinking, engineering, and innovation

SMALL ENGINES/TRANSPORTATION **ADDITIONAL FEE REQUIRED ½ CREDIT GRADES 10-12 OFFERED ODD YEARS BEGINNING 2023-2024** In this course, students will learn the operating principles of gasoline engines. Through disassembling and reassembling small engines, students will gain a basic understanding of the science and theory behind 2- and 4-stroke cycle engines. Other topics include diagnostics and problem solving as well as general repair and maintenance.