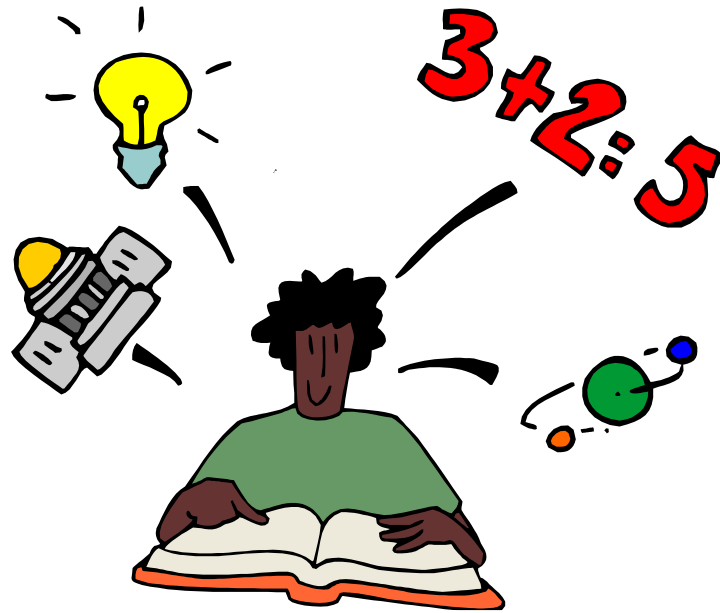


# Laconia High School



## Scheduling Handbook 2018-2019

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## **COURSE DESCRIPTIONS**

### **REQUIRED COURSES**

<b>English</b>	<b>10</b>
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The Rosendale-Brandon School District, in accordance with state and federal law, does not discriminate because of the person's sex, race, color, religion, gender, sexual orientation, age, national origin, ancestry, creed, disability, military or veteran status, political affiliation, pregnancy, marital or parental status, physical, mental, emotional or learning disability or hardship, or other basis prohibited under state and federal law, in its educational and employment policies and practices. Career and Technical Education courses are available without discrimination.



# What are the required courses to graduate from Laconia High School?

Grade Level Requirements:

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> 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	
<b>4.5 credits required plus electives</b>	<b>4.5 credits required plus electives</b>	<b>4.5 credits required plus electives</b>	<b>2 credits required plus electives</b>

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 and College Entrance Requirements?\*

High School	College
4 English	4 English
3 Math	3 Math: Algebra and 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 a minimum of 2 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](http://www.wistechcolleges.org) , [www.wisconsinprivatecolleges.org](http://www.wisconsinprivatecolleges.org) and [uwhelp.wisconsin.edu](http://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 European History
AP Calculus AB	AP United States Government and Politics
AP English Language and Composition	AP United States History
AP English Literature and Composition	



Starting with the 2018-2019 School Year:

AP Chemistry  
AP Computer Science Principles

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 AP 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 and Start College Now Programs (Formerly Youth Options)

	<b>Early College Credit</b>	<b>Start College Now</b>
<b>Program Overview</b>	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.
<b>Eligibility</b>	<ul style="list-style-type: none"> <li>• Students in grades 9-12.</li> <li>• Courses may be taken during Fall, Spring, and Summer semesters.(Effective as of 7/1/18)</li> </ul>	<ul style="list-style-type: none"> <li>• Students in grades 11-12</li> <li>• Courses may be taken during Fall and Spring semesters.</li> </ul>
<b>Process</b>	<ul style="list-style-type: none"> <li>• Student must submit an application to the institution of higher education (IHE) in the previous school semester.</li> <li>• Student must notify school district of intent to enroll by March 1<sup>st</sup> for the fall and summers, and October 1<sup>st</sup> for the spring semester. The notification form may be found in the school office, school counseling office, or on the district website.</li> <li>• 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.</li> <li>• Enrollment in course(s) is not guaranteed; student must follow any registration requirements in place at the IHE and meet any prerequisites.</li> <li>• If the student receives a failing grade or fails to complete an 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Student must submit complete the application for the Start College Now Program found at <a href="https://tinyurl.com/yapmslfe">https://tinyurl.com/yapmslfe</a> or in the school counseling office.</li> <li>• Completed form must be submitted no later than March 1<sup>st</sup> for the fall semester and October 1<sup>st</sup> for the spring semester.</li> <li>• 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.</li> <li>• Enrollment in course(s) is not guaranteed; student must follow any registration requirements in place at the technical college and meet any prerequisites.</li> </ul>
<b>Website</b>	UW System: <a href="https://uwhelp.wisconsin.edu/prep-for-college/credits/high-school-special-student-options/">https://uwhelp.wisconsin.edu/prep-for-college/credits/high-school-special-student-options/</a> Private Schools: <a href="http://www.waicu.org/dual-enrollment/eccp">http://www.waicu.org/dual-enrollment/eccp</a>	<a href="https://tinyurl.com/yapmslfe">https://tinyurl.com/yapmslfe</a>

# 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 Mr. Roets 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, and 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.

### 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 is 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. 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

Senior English 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 around a theme. Major assignments include but are not limited to direct and indirect business letters, memos and emails, instructions, an oral project, 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 who choose to enroll in the dual credit option may receive credit for the class Written Communication (801-195) from Fox Valley Technical College if they receive an 80% or better in both semesters.

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 following three examples are just a few of the possibilities. It's important to consider your abilities, your math needs, and your future plans when making your selection.

Grade Level	Minimum Required for Graduation	General Math Background	College Prep Background
9 <sup>th</sup>	Algebra I	Geometry	Geometry
10 <sup>th</sup>	Geometry	Algebra II	Advanced Algebra II
11 <sup>th</sup>	College Math	Pre-Calculus	Pre-Calculus
12 <sup>th</sup>	Optional: Algebra II	Optional: Financial Math	Optional: AP Calculus AB

## **ALGEBRA I—TEACHER RECOMMENDATION ONLY**

**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 which 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 is a course required for all students going to college and recommended for students going into any technical careers. 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.

## **COLLEGE MATH**

**A scientific calculator is required for this course.**

**1 CREDIT**

**GRADES 11-12**

**PREREQUISITE: GEOMETRY AND TEACHER RECOMMENDATION**

This course is designed for students who need to further review and develop fundamental concepts of mathematics pertinent to the areas of: (1) arithmetic and algebra, (2) geometry and trigonometry, and (3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. Topics include performing arithmetic operations and simplifying algebraic expressions; solving linear equations and inequalities in one variable; solving proportions and incorporating percent applications; manipulating formulas; solving and graphing systems of linear equations and inequalities in two variables; finding areas and volumes of geometric figures; applying similar and congruent triangles; converting measurements within and between U.S. and metric systems; applying Pythagorean Theorem; solving right and oblique triangles; calculating probabilities; organizing data and interpreting charts; calculating central and spread measures; summarizing and analyzing data. Students who choose to enroll in the transcribed credit option will earn 3 credits from Moraine Park Technical College if they earn a C or better in the course 804-107 College Mathematics.

## **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 I. It reviews Algebra and attempts to eliminate difficulties experienced there. Introduction first and second-degree equations as well as several equations with several unknowns are studied. New concepts deal with negative and fractional exponents, logarithms, complex numbers, and conic sections. Introduction to parabolas, ellipses, and hyperbolas are discussed. This course will include an introduction to trigonometric functions and applications of probability and statistics

**OR**

## **ADVANCED 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 I. Introduction first and second-degree equations as well as several equations with several unknowns are studied. New concepts deal with negative and fractional exponents, logarithms, complex numbers, and conic sections. Introduction to parabolas, ellipses, and hyperbolas are discussed. This course will include trigonometric functions, statistical analysis, and applications of probability. **This course is highly recommended for students wanting to pursue areas in the science and math fields.**

## **FINANCIAL ALGEBRA**

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

**1 CREDIT**

**GRADES 11-12**

**PREQUISITE: ALGEBRA II OR ADVANCED 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 spreadsheet, 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: ADVANCED ALGEBRA II OR 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.

## **PHYSICAL EDUCATION (1 ½ 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 21<sup>st</sup> 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.
- 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. Students will be required to complete a Daily Fitness Log.**

## STRENGTH-SPEED-AGILITY

½ CREDIT GRADES 9-10 AND GRADES 11-12

The course is designed to provide students with the 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 which incorporates cardiovascular training and resistance training. There will also be nutritional information provided. This class is designed for male and female students and athletes that want to take their performance to the next level or for the person that 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. 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 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. Students will also be required to complete a Daily Fitness Log.**

## SCIENCE ( 3 CREDITS REQUIRED)



Three years of science are required to graduate from any public high school in Wisconsin.

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 Science Department suggests choosing one of the following sequences when planning your high school schedule.

Grade Level	Minimum Needed for Graduation	Broad General Science Background	Strong College Prep Background
9 <sup>th</sup> Grade	Biology (Life Science)	Biology (Life Science)	Biology (Life Science)
10 <sup>th</sup> Grade	Environmental Geology	Environmental Geology	Chemistry
11/12 <sup>th</sup> Grade	<b>Choose one:</b> <ul style="list-style-type: none"><li>• Forensic Science</li><li>• Chemistry</li></ul>	<b>Choose two:</b> <ul style="list-style-type: none"><li>• Chemistry</li><li>• AP Chemistry</li><li>• Forensic Science</li><li>• Human Physiology &amp; Anatomy</li><li>• Physics</li></ul>	<b>Choose at least two:</b> <ul style="list-style-type: none"><li>• AP Biology</li><li>• AP Chemistry</li><li>• Human Physiology &amp; Anatomy</li><li>• Forensic Science</li><li>• Physics</li></ul>



## **BIOLOGY**

**1 CREDIT**

**GRADE 9**

Biology is a survey course designed to introduce students to scientific thought and the nature of living things. Students will learn basic scientific principles, vocabulary and techniques. The course will cover cell structure and function, introductory chemistry, cell division, genetics, plants, ecology, evolution, animal and human physiology. This course will emphasize the importance of understanding living systems. Students will participate in many hands-on activities. Laboratory experiences will be emphasized throughout the Biology course.

## **ENVIRONMENTAL GEOLOGY**

**1 CREDIT**

**GRADES 10-12**

This course is a science class focusing on the function of the Earth's systems. Emphasis is placed on the human interactions with Earth's geologic and environmental systems, the predictability of a dynamic Earth, the origin and change of the earth system and universe, and the geochemical cycles and energy of the Earth system. 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 geologic processes, ecological principles, air, water, land resources, the atmosphere, and climate.

## **FORENSIC SCIENCE**

**1 CREDIT**

**GRADES 11-12**

**ADDITIONAL FEE REQUIRED**

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**

**1 CREDIT**

**GRADES 10-12**

**ADDITIONAL FEE REQUIRED**

**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.



## **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.**



## HUMAN PHYSIOLOGY AND ANATOMY

ADDITIONAL FEE REQUIRED

1 CREDIT

GRADES 11-12

PREREQUISITE: CHEMISTRY

This will be a one year course that examines concepts of anatomy and physiology as they relate to health careers. The students will gain knowledge of the location and function of human anatomical structures. This will be accomplished through laboratory investigations and model labeling activities of the structure of the body. This course includes dissections which will help students to learn anatomy. The physiology portion of the class will study the functions of these parts and asks the question, "How do the parts of the body work?" An experimental component will be used to study the physiology of the body. Students will also gain knowledge about real world applications of anatomy and physiology.

## AP BIOLOGY

ADDITIONAL FEE REQUIRED

1 CREDIT

GRADES 11-12

WEIGHTED GRADING COURSE

PREREQUISITE: CHEMISTRY

**Recommendation: It is recommended that students have completed Human Physiology & Anatomy and earned a grade of "B" or higher in Biology.**

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.

## PHYSICS

1 CREDIT

GRADES 11-12

PREREQUISITE: ADVANCED ALGEBRA II OR ALGEBRA II AND CHEMISTRY

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 its 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. Some areas of study covered will be, 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 21<sup>st</sup> 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 understandings 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 branch. 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**



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 an \$88.3 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.

#### **Prerequisite for all Agriculture courses**

##### **ANIMALS, PLANTS AND YOU**

1/2 CREDIT

GRADES 9-12

OFFERED EVERY YEAR

This first year agriculture course will provide students with the knowledge needed to explore the world of agriculture and the FFA. Basic units included are 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. **One semester of this class is the prerequisite for all agriculture classes.**

#### **Agribusiness Systems Pathway**

##### **AGRICULTURE LEADERSHIP, LITERACY, AND HOT TOPICS**

1/2 CREDIT

GRADES 9-12

OFFERED EVERY YEAR

Ag is everywhere – everyone uses something related to agriculture everyday! 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.**

##### **AGRIBUSINESS SALES AND MARKETING**

1/2 CREDIT

GRADES 11-12

OFFERED ODD YEARS BEGINNING 2019-2020

Students will learn job employability skills; resume writing, money management, interviewing skills, and leadership traits necessary to compete in our fast-paced society. Other areas explored will be in the advertising and selling of agricultural products through all forms of media, including radio and TV.

#### **Animal Systems Pathway**

##### **ANIMAL SCIENCE**

1/2 CREDIT

GRADES 10-12

OFFERED EVEN YEARS BEGINNING 2018-2019

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**

1/2 CREDIT

GRADES 9-12

OFFERED ODD YEARS BEGINNING 2019-2020

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 2018-2019**

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 FOOD SCIENCE AND AGPROCESSING**

**½ CREDIT**

**GRADES 11-12**

**ADDITIONAL FEE REQUIRED**

**OFFERED EVERY YEAR**

#### **PREREQUISITE: FOOD SCIENCE AND AGPROCESSING**

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.

### **FOOD SCIENCE AND AGPROCESSING**

**½ CREDIT**

**GRADES 10-12**

**ADDITIONAL FEE REQUIRED**

**OFFERED EVERY YEAR**

Is there a future in agriculture? It all depends on your answer to the following questions – did you eat today and are you planning on eating tomorrow? Food Science and AgProcessing are 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 Food Science and AgProcessing.

## **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 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

Students who complete all three courses in the Plant Systems Pathway while in high school may be eligible to receive Advanced Standing credit with Fox Valley Technical College.

### **FLORAL DESIGN AND LANDSCAPING**

½ CREDIT

GRADES 9-12

ADDITIONAL FEE REQUIRED  
OFFERED ODD YEARS BEGINNING 2019-2020

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.

### **PLANT SCIENCE**

½ CREDIT

GRADES 9-12

ADDITIONAL FEE REQUIRED  
OFFERED EVERY YEAR

In this semester class you will get hands-on experience growing plants in the greenhouse. Students learn to identify and grow vegetable, 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.

### **VEGETABLE AND CROP PRODUCTION**

½ CREDIT

GRADES 9-12

OFFERED EVEN YEARS BEGINNING 2018-2019

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.

## 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 junior 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 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



## Prerequisite for all art courses

### **ART SURVEY**

½ CREDIT

GRADES 9-12

ADDITIONAL FEE REQUIRED

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. **This class is the Prerequisite for all art classes except Digital Imagery.**

**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 many ceramic projects including a working water fountain.

**CERAMICS II****ADDITIONAL FEE REQUIRED****½ CREDIT****GRADES 10-12****PREREQUISITE: CERAMICS I**

This course is further exploration in 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 further exploration in ceramics, both hand built and wheel-thrown, with more emphasis on technique and individuality.

**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, dry point 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 further exploration in 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 further exploration in painting with more emphasis on technique and individuality. Students will build their own canvases to paint on.

## DIGITAL IMAGERY I

½ CREDIT

GRADES 9-12

ADDITIONAL FEE REQUIRED

Focuses on the understanding and functions of digital cameras, also learning photo editing and manipulation software. Students learn the elements of art, principles of design, composition, lighting, history of photography, technological developments and important innovators. Students will learn imaging techniques and digital manipulation using Adobe Photoshop and Lightroom, they will learn how to manage and optimize or 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 art skills.

## DIGITAL IMAGERY II

½ CREDIT

GRADES 9-12

ADDITIONAL FEE REQUIRED

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

½ CREDIT

GRADES 10-12

ADDITIONAL FEE REQUIRED

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.

## BUSINESS



## ACCOUNTING

1 CREDIT

GRADES 10-12

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 real world applications of the basic accounting rules and procedures.



### BUSINESS COMMUNICATIONS

½ CREDIT

GRADES 9-12

OFFERED ODD YEARS BEGINNING 2019-2020

What message are you sending when you speak, write, and listen? As one of the most important skills for employers, students will explore the value of communication in their personal and professional life. The digital presence and impact of written and visual communication in a technological society will be addressed. Students will create professional-appearing business document with clear and concise communication. Creative design, persuasive personal and professional communications will be applied through research, evaluation, written, and oral communication. Leadership development and teamwork skills will be stressed as students work independently and collaboratively. Presentation skills will be developed and modeled for students to master presentation programs such as Prezi and Canva.



### BUSINESS LAW AND ETHICS

½ CREDIT

GRADES 10-12

OFFERED EVEN YEARS BEGINNING 2018-2019

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**

**1/2 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 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**

**1/2 CREDIT GRADES 10-12**

Currently ONE out of every six adults is employed in a marketing occupation! Business Marketing Practices 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 a radio and a TV commercial, developing showcases to promote a product, and helping promote an L-Club fundraiser are some of the projects 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 work force, marketing can help develop skills that will enable them to be competitive and succeed in the future.



## **CAREER DEVELOPMENT**

**1/2 CREDIT GRADES 10-12**

This course will provide students the opportunity to explore career pathways and career development plans and to make an action plan to meet their long term goals. Students will be assisted in finding a job shadow experience, internship, or mentor experience.

## **GENERAL BUSINESS**

**1/2 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, forms of business ownership, the free enterprise, and financial services. This class will also provide 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.



## **INTRODUCTION TO BUSINESS**

**1 CREDIT GRADES 11-12**

This course further introduces student 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 who choose to enroll in the transcribed credit option and earn a C or better will earn credit from Moraine Park Technical College in course #102-110, Introduction to Business.



## **PERSONAL SKILLS FOR THE WORKPLACE**

**1 CREDIT GRADES 11-12**

Applies the skills and tools necessary to deal with time management, stress and related challenges to a supervisor. Students demonstrate the application of time management techniques, personal planning, continuous learning, valuing rights and responsibilities of others, effective communication, assertiveness and dealing effectively with stress. Students who choose to enroll in the transcribed credit option and earn a C or better will earn credit from Moraine Park Technical College in course #196-164, Personal Skills for the Workplace.

## **COMPUTER SCIENCE**



### **AP COMPUTER SCIENCE PRINCIPLES**

**1 CREDIT GRADES 10-12**

**PREREQUISITE: EXPLORING COMPUTER SCIENCE OR SENIOR STANDING WITH INSTRUCTOR APPROVAL**

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.

### **EXPLORING COMPUTER SCIENCE**

**1 CREDIT GRADES 9-12**

**PREREQUISITE: COMPLETION OR CONCURRENT ENROLLMENT IN GEOMETRY**

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**



### **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. In order to qualify as a student mentor, the following conditions would have to be met:

- Minimum 3.5 cumulative GPA
- Willingness to tutor in all subject areas
- Approval by principal and/or school counselor

## ENGLISH



### **CREATIVE WRITING**

½ CREDIT

GRADES 9-12

OFFERED EVEN YEARS BEGINNING 2018-2019

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, able to stay organized, and be willing to meet and interview fellow students, attend school events, and work hard to meet deadlines. Students may retake the class every year.

### **MOVIES AND MEDIA**

½ CREDIT

GRADE 9-12

OFFERED ODD YEARS BEGINNING 2019-2020

Speech is our main means of communicating with each other in life. This course is developed to help students better understand the communication process and improve their ability to speak effectively in both group discussions and individual presentations. Persuasive, informative, oral interpretation and special occasion speeches will be the course focus.

### **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 to 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 in order 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.

## 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 and 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**



### **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.

## **ADVANCED ALGEBRA II**

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

**1 CREDIT GRADES 10-11**

**PREREQUISITE: GEOMETRY**

This course is a continuation of Algebra I. Introduction first and second-degree equations as well as several equations with several unknowns are studied. New concepts deal with negative and fractional exponents, logarithms, complex numbers, and conic sections. Introduction to parabolas, ellipses, and hyperbolas are discussed. This course will include trigonometric functions, statistical analysis, and applications of probability.

**This course is highly recommended for students planning on taking Pre-Calculus.**

## **ALGEBRA II**

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

**1 CREDIT GRADES 10-11**

**PREREQUISITE: GEOMETRY**

This course is a continuation of Algebra I. It reviews Algebra and attempts to eliminate difficulties experienced there. Introduction first and second-degree equations as well as several equations with several unknowns are studied. New concepts deal with negative and fractional exponents, logarithms, complex numbers, and conic sections. Introduction to parabolas, ellipses, and hyperbolas are discussed. This course will include an introduction to trigonometric functions and applications of probability and statistics.

## **COLLEGE MATH**

**A scientific calculator is required for this course.**

**1 CREDIT GRADES 11-12**

**PREREQUISITE: GEOMETRY AND TEACHER RECOMMENDATION**

This course is designed for students who need to further review and develop fundamental concepts of mathematics pertinent to the areas of: (1) arithmetic and algebra, (2) geometry and trigonometry, and (3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. Topics include performing arithmetic operations and simplifying algebraic expressions; solving linear equations and inequalities in one variable; solving proportions and incorporating percent applications; manipulating formulas; solving and graphing systems of linear equations and inequalities in two variables; finding areas and volumes of geometric figures; applying similar and congruent triangles; converting measurements within and between U.S. and metric systems; applying Pythagorean Theorem; solving right and oblique triangles; calculating probabilities; organizing data and interpreting charts; calculating central and spread measures; summarizing and analyzing data. Students who choose to enroll in the transcripted credit option will earn 3 credits from Moraine Park Technical College if they earn a C or better in the course 804-107 College Mathematics.

## **FINANCIAL ALGEBRA**

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

**1 CREDIT GRADES 11-12**

**PREREQUISITE: ALGEBRA II OR ADVANCED 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 spreadsheet, 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: ADVANCED ALGEBRA II OR 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 at solo-ensemble 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**

**1 CREDIT GRADES 10-12**

**PREREQUISITE: INTRODUCTION TO PLAYING GUITAR**

**ADDITIONAL FEE REQUIRED**

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, finger picking 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**

**1 CREDIT GRADES 9-12**

**ADDITIONAL FEE REQUIRED**

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 own interest. Topics include instrument care, note and rhythm reading, strumming, finger picking, chord progressions, and song writing. 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**

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 21<sup>st</sup> 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.
- 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. Students will be required to complete a Daily Fitness Log.**

## **STRENGTH-SPEED-AGILITY**

½ CREDIT

GRADES 9-10 AND GRADES 11-12

The course is designed to provide students with the 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 which incorporates cardiovascular training and resistance training. There will also be nutritional information provided. This class is designed for male and female students and athletes that want to take their performance to the next level or for the person that 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. 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 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. Students will also be required to complete a Daily Fitness Log.**

## SCIENCE



### AP BIOLOGY

1 CREDIT GRADES 11-12 WEIGHTED GRADING COURSE

ADDITIONAL FEE REQUIRED

PREREQUISITE: CHEMISTRY

Recommendation: It is recommended that students have completed Human Physiology and Anatomy and earned a grade of “B” or higher in Biology.

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.

### CHEMISTRY

1 CREDIT GRADES 10-12

ADDITIONAL FEE REQUIRED

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.



### AP CHEMISTRY

1 CREDIT GRADES 11-12

ADDITIONAL FEE REQUIRED

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.**



## **ENVIRONMENTAL GEOLOGY**

**1 CREDIT**

**GRADES 10-12**

This course is a science class focusing on the function of the Earth's systems. Emphasis is placed on the human interactions with Earth's geologic and environmental systems, the predictability of a dynamic Earth, the origin and change of the earth system and universe, and the geochemical cycles and energy of the Earth system. 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 geologic processes, ecological principles, air, water, land resources, the atmosphere, and climate.

## **FORENSIC SCIENCE**

**1 CREDIT**

**GRADES 11-12**

**ADDITIONAL FEE REQUIRED**

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 PHYSIOLOGY AND ANATOMY**

**1 CREDIT**

**GRADES 11-12**

**ADDITIONAL FEE REQUIRED**

**PREREQUISITE: CHEMISTRY**

This will be a one year course that examines concepts of anatomy and physiology as they relate to health careers. The students will gain knowledge of the location and function of human anatomical structures. This will be accomplished through laboratory investigations and model labeling activities of the structure of the body. This course includes dissections which will help students to learn anatomy. The physiology portion of the class will study the functions of these parts and asks the question, "How do the parts of the body work?" An experimental component will be used to study the physiology of the body. Students will also gain knowledge about real world applications of anatomy and physiology.

## **PHYSICS**

**1 CREDIT**

**GRADES 11-12**

**PREREQUISITE: ADVANCED ALGEBRA II OR ALGEBRA II AND CHEMISTRY**

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**



## **ANCIENT WORLD HISTORY**

**½ CREDIT**

**GRADES 9-12**

This is a survey course, which will highlight major civilizations, events, and individuals that have had 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 freshman 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 first choice.

## **TECHNOLOGY EDUCATION**



### **Prerequisite for all Technology Education courses**

#### **EXPLORING TECHNOLOGY**

**1 CREDIT**

**GRADES 9-12**

**ADDITIONAL FEE REQUIRED**

This class is the introductory class to all areas of technology education. 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**

**1/2 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. A main focus of this course is designing and building Project Grill with an emphasis on welding skills. Upon successful completion of this course with a "C" or better, students who choose to enroll in the transcribed credit option will earn credit for Moraine Park Technical College's "Introduction to Welding Processes" course #442-307. 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**

**1/2 CREDIT**

**GRADES 10-12**

**PREREQUISITE: EXPLORING TECHNOLOGY**

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**

**1/2 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**

**1/2 CREDIT**

**GRADES 10-12**

**PREREQUISITE: EXPLORING TECHNOLOGY**

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 transcribed 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**

**PREREQUISITE: EXPLORING TECHNOLOGY**

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**

**1/2 CREDIT**

**GRADES 10-12**

**PREREQUISITE: EXPLORING TECHNOLOGY**

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.