

Lake Mills High School

Lake Mills, Wisconsin

Preparing all of today's students for tomorrow's opportunities.



2020-2021 Course Handbook

Revised
December, 2019

This course description book is designed to assist in selecting courses throughout your high school years. It has been developed to provide information about all the courses and offerings available to you at Lake Mills High School, as well as other important facts, which will help in planning your high school and post-high school education.

As you progress through high school, you are required to take certain courses designed to help you become a well-rounded individual. In addition, you may select electives to explore and develop your own interests and to prepare yourself to meet your goals.

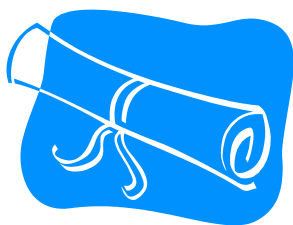
What you learn both inside and outside the classroom and the goals you set for yourself will largely determine what you will be able to do with your life. At each stage of your high school career, you should seriously consider your goals and develop a program of study to prepare you for further education in your life's work.

It is important that you review this guide with the following questions in mind:

- What are your interests?
- What are you good at that might develop into a possible career choice?
- What standard of living, lifestyle and work environment are most appealing?
- What kind of education is needed for my plans after high school?

We hope that all courses listed in this guide will be offered during the 2020-2021 school year. However, it is possible that some may not be offered due to inadequate registration or scheduling problems.

We look forward to a great school year for every Lake Mills High School student!



The selection of courses should be taken very seriously. LMHS uses the student requests for courses to determine staffing and the schedule for the following year. Requests for course changes will be limited in 2020-2021.

COURSE SELECTION

OVERVIEW

Lake Mills High School operates on a semester schedule. One semester equals .5 credit, unless otherwise noted. This handbook gives Lake Mills High School students and parents the information necessary to choose courses for next year. The same information is listed on our website www.lakemills.k12.wi.us under **High School**. Elective courses are those that are not required by the school district. Your abilities, interests, and educational plans should guide you in your choice of electives. If you have any questions about which courses to take, please contact the Lake Mills High School Guidance Department.

GRADUATION REQUIREMENTS

In order to graduate from Lake Mills High School, a student must:

1. Carry eight (8) courses each semester. Seniors in “good standing” may select one study hall each semester.
2. Earn a minimum of twenty-six (26) credits
3. Successfully complete:
 - a. English: 4 credits- English 9,10,11-required
 - b. Social Studies: 3 credits- World History, US History 10, US History 11 & Current Issues **or** AP US History required
 - c. Math: 3 credits - Algebra required
 - d. Science: 3 credits - Biology required
 - e. Physical Education: 9th (1st semester),10th,11th, 12th (one semester)
 - f. Health –9th grade 2nd semester
 - g. Elective credits
 - h. Successfully complete Lake Mills High School portfolio and exit interview
 - i. Successfully complete state civics exam

In addition to the above requirements, all seniors must enroll in at least one core course (English, math, science, social studies) in each semester.

GRADE CLASSIFICATION FOR STUDENTS

Each student is expected to pass at least 6.5 credits per year and accumulate at least 26 credits for graduation.

10th Grade Standing- Minimum of 5.5 credits earned.

11th Grade Standing- Minimum of 13 credits earned.

12th Grade Standing- Minimum of 18 credits earned.

COURSE CHANGES

Adding or dropping of classes will be considered with parent consent. Any course dropped after the first week of classes for the semester may receive a failing grade. This policy requires that students think carefully about their course selections before registration.

COLLEGE PREPARATORY COURSE REQUIREMENTS

The stronger the college preparatory courses you complete in high school, the more likely you'll succeed in college. High school courses should prepare you for college by developing

strong academic skills. While college entrance requirements vary, most require a minimum of 17 college preparatory credits from high school. The following information provides a guideline for the UW System. You should always check with schools of interest for their specific requirements:

- 4 years English, including composition and literature
- 3 years social science involving the theoretical study of culture, history, political science, economics and human behavior and societies (such as psychology and sociology)
- 3 years math, including algebra, geometry and other courses with algebra and geometry prerequisites.
- 3 years of natural science, including one or more units of lab science, such as biology, chemistry or physics
- 4 elective credits which may be chosen from English, math, natural or social science, fine arts, foreign language, computer science and other academic areas.

TECHNICAL COLLEGE PREPARATION

Entrance requirements vary depending on the type of school. Many specialized courses of study require a certain grade average plus certain grades in basic courses in English, math, science and social studies.

EARLY COLLEGE CREDIT PROGRAM (ECCP)

Wisconsin's Early College Credit Program (ECCP) allows students in grades 9-12 to take post-secondary courses at a UW System school or one of the state's participating private non-profit institutions of higher education. The school district pays for tuition and fees unless a comparable course is available in the district. If a comparable course is available, the student may be able to take the course but is responsible for tuition and fees. In both cases, the student is responsible for transportation. The school board **must** approve these course selections in advance. The student shall be admitted to the course if requirements and prerequisites of the course are met and there is space available. Completed courses earn high school credit and count in a student's grade point average, as well as accumulating college credit and grade point average. Applications for summer/fall semester participation are due March 1; applications for spring participation are due October 1.

START COLLEGE NOW

Wisconsin's Start College Now program allows students in grades 11-12 to take post-secondary courses at a technical college. The school district pays for tuition and fees unless a comparable course is available in the district. If a comparable course is available, the student may be able to take the course but is responsible for tuition and fees. The student is responsible for transportation. The student must be in good academic standing and not a child at risk. The school board **must** approve these course selections in advance. The student may be admitted to the course if requirements and prerequisites of the course are met and there is space available. Completed courses earn high school credit and count in a student's high school grade point average, as well as accumulating college credit and grade point average. Application forms for fall semester participation are due March 1; applications for spring participation are due October 1. Summer sessions are not available for this program.

VIRTUAL COURSES

Virtual courses provide flexible learning opportunities to Lake Mills High School students. Students may elect to take a virtual course only if a similar course is not offered in the district. Students who select a virtual course need to have strong time-management skills, self-motivation, be able to use a variety of technologies and have appropriate etiquette online.

- **If you chose to drop a virtual course for any reason once you have been enrolled through JEDI, you will be billed \$50.**
- Failure of a JEDI course or the inability to complete a JEDI course in the designated time period may result in a student's inability to take another JEDI course in the future.
- Students may enroll in only **one** online course in the semester that online learning first occurs.
- A maximum of two JEDI courses are allowed each semester.
- Virtual courses are included in the Course Index and denoted by (online).
- Students earn an S/U grade at the end of 1st and 3rd quarters based on at least 40% completion in the course and an overall passing grade (60% or better).

WISCONSIN GLOBAL EDUCATION ACHIEVEMENT CERTIFICATE

Lake Mills High School is pleased to offer students the opportunity to earn a Wisconsin Global Education Achievement Certificate. The parameters for the certificate have been developed by the Wisconsin DPI. The certificate acknowledges students have demonstrated a strong interest in global issues by successfully completing a global education curriculum and engaging in co-curricular activities and experiences that foster the development of global competencies. Students graduating from high school may be awarded the distinction of Wisconsin Global Scholar if they have completed the following requirements:

- Four (4) credits in one world language.
- Four (4) credits in courses of global content. One of those credits may be a year of a second world language. Follow this link: <https://sites.google.com/a/lakemills.k12.wi.us/lmhs-geac/> or see the high school website for the course list.
- Reflections on eight books (fiction or non-fiction) with global content. Alternately, up to four reflections may be on art, music or film.
- Participation in school-wide global activities.
- A minimum of twenty (20) hours of global service learning.

COURSE INDEX

* required for graduation

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>	<u>PAGE</u>
<u>AGRICULTURE</u>			
Agriculture Survey/ Intro. to FFA	1	9-10	10
Agri-Science & Food Science/Biotech.	1	10-12	10
Horticulture/Landscaping	1	11-12	10
Wildlife & Natural Resources Mgmt.	1	10-12	10
Large Animals & Meat Science	.5	10-12	11
Vet Science/Companion Animal Science	.5	10-12	11
Ag. Business/Farm Management	1	11-12	11

Agriscience Youth Apprenticeship	.5, 1	11-12	11
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ART

Art Foundations	1	9-12	12
Drawing 1	.5	10-12	12
Drawing 2	.5	10-12	12
Painting 1	.5	10-12	12
Painting 2	.5	10-12	13
Ceramics 1	.5	10-12	13
Ceramics 2	.5	10-12	13
Sculpture 1	.5	10-12	13
Sculpture 2	.5	10-12	13
Advanced Painting	.5, 1	11-12	13
Advanced Drawing	.5, 1	11-12	13
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Digital Photography	.5	9-12	13
Adv. Digital Photography	.5	9-12	14

BUSINESS AND INFORMATION TECHNOLOGY

Computer Essentials	.5	9-12	14
Adv. Computer App. (dual credit)	1	10-12	14
Web Design (dual credit)	.5	10-12	15
Advanced Web Design	.5	10-12	15
Graphic Design (dual credit)	.5	10-12	15
Intro. To Computer Science	.5	10-12	15
Game Design	.5	10-12	15
Introduction to Business	.5	9-10	15
Business and Personal Law	.5	10-12	15
Marketing	.5	11-12	16
Accounting (dual credit)	1	11-12	16
Advanced Accounting	1	12	16
Personal Finance	.5	11-12	16
International Business (online)	.5	10-12	16
AP Computer Science (online)	1	11-12	16
Business Youth Apprenticeship	.5, 1	11-12	17

CAREER EDUCATION

Teacher Aide	.25	11-12	17
Work Experience	.25	11-12	17
Character Dvlp & Leadership (CD&L)	.5	9-12	17

ENGLISH

English 9*	1	9	18
English 10*	1	10	18
English 11*	1	11	19
Creative Writing/Comparative Lit.	1	12	19
Novels	1	11-12	19
Communications	1	10-12	19
College Reading & Writing (dual cr.)	1	12	19
AP English Literature (dual credit)	1	12	19
English 104 Intro. to Literature (dual cr)	1	12	19
AP English Lang. and Comp. (online)	1	11-12	19

FAMILY AND CONSUMER SCIENCE

Foods I	.5	9-12	20
Foods II	.5	9-12	21

Baking and Pastry Arts	.5	9-12	21
Advanced Baking and Pastry Arts	.5	9-12	21
World Cuisines	.5	10-12	21
Hospitality Youth Apprenticeship	1	12	21
Working with Children	.5	9-12	21
Hospitality and Tourism 1 (online)	.5	10-12	22
Hospitality and Tourism 2 (online)	.5	10-12	22
Intro.to Health Careers	.5	9-12	22
Medical Terminology (dual credit ,online).	.75	11-12	22
Health Services Youth Apprenticeship	1	12	22

INDEPENDENT STUDY

Independent Study	.5	11-12	23
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MATHEMATICS

Stretch Algebra Year 1	1	9	23
Stretch Algebra Year 2	1	10	23
Algebra	1	9	24
Geometry	1	9-12	24
Advanced Geometry	1	9-10	24
Math Concepts and Analysis (dual cr.)	1	11-12	24
Algebra 2	1	10-12	24
Advanced Algebra/Trigonometry	1	9-12	24
Integrated College Math	1	11-12	24
Pre-Calculus	1	10-12	25
AP Calculus AB	1	11-12	25
AP Calculus BC	1	12	25
AP Statistics	1	11-12	25

MUSIC

Independent Music	.5	11-12	26
Basic/Intermediate Guitar	.5	9-12	26
Band	1	9-12	26
Orchestra	1	9-12	27
Treble/Bass Choir	1	9-12	27
Concert Choir	1	11-12	27
Music Technology	.5	10-12	27

PHYSICAL EDUCATION

PE. 9 & Health Education*	.5	9	27
PE 10*	.5	10	28
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Strength Training & Conditioning **	.25	11-12	28
Team/Individual/Competitive Sports**	.25	11-12	28
Sports Officiating (online)	.5	9-12	28

**one or a combination required

SCIENCE

Biology	1	9-10	29
Integrated Global Science	1	9-12	29
Anatomy & Physiology	1	11-12	30
Chemistry	1	10-12	30
Advanced Chemistry	1	11-12	30
Biotechnology & Forensic Science	.5	11-12	30
Physics	1	11-12	30
AP Biology	1	11-12	30

AP Chemistry (online)	1	11-12	30
AP Environmental Science (online)	1	11-12	30

SOCIAL SCIENCE

World History 9*	1	9	31
US History 10*	1	10	31
US History 11*	.5	11	31
Current Issues and Politics*	.5	11-12	32
AP United States History	1	11-12	32
AP US Government and Politics	1	12	32
History of Economics	.5	12	32
Psychology	.5	11,12	32
Sociology	.5	11-12	32
Anthropology (online)	.5	11-12	32
Archaeology (online)	.5	11-12	32
Ethics (online)	.5	11-12	33
World Religions (online)	.5	10-12	33
Careers in Criminal Justice (online)	1	10-12	33
Intro. to Women's Studies (online)	.5	10-12	33
National Security (online)	.5	10-12	33
AP Macroeconomics (online)	.5	11-12	33
AP Microeconomics (online)	.5	11-12	33
AP Psychology (online)	.5	11-12	34

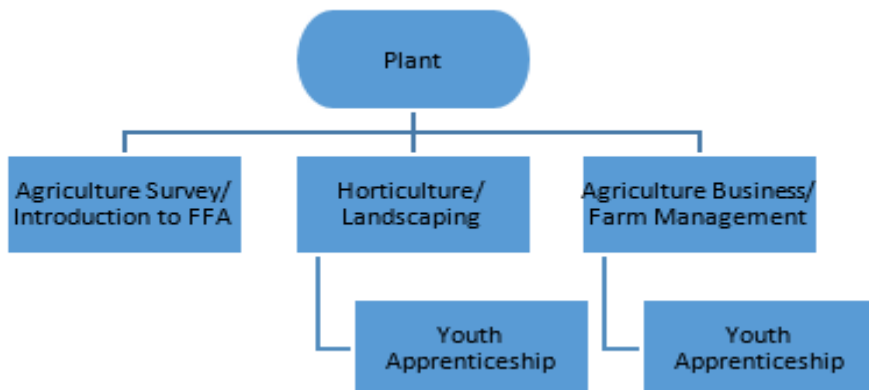
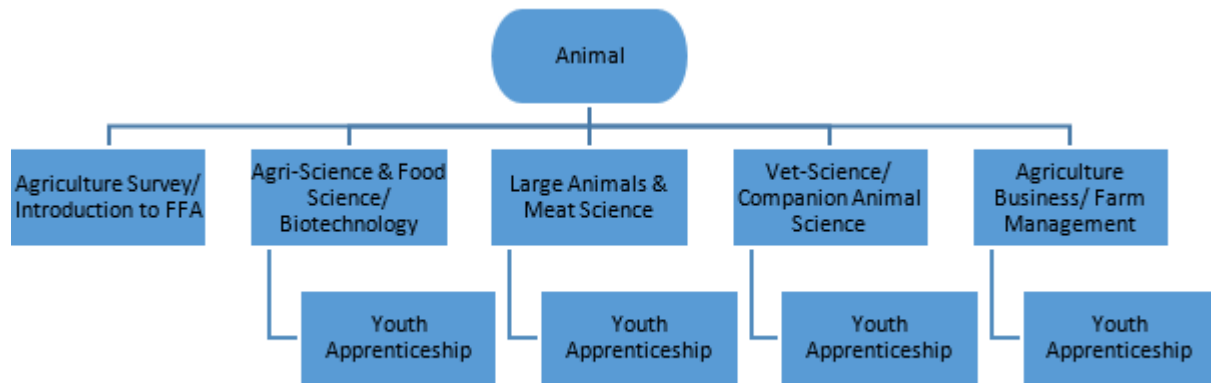
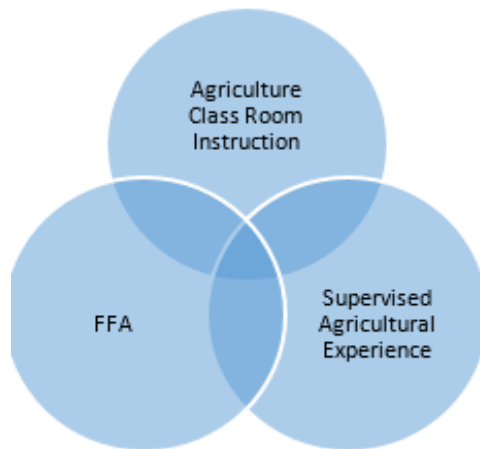
TECHNOLOGY & ENGINEERING EDUCATION

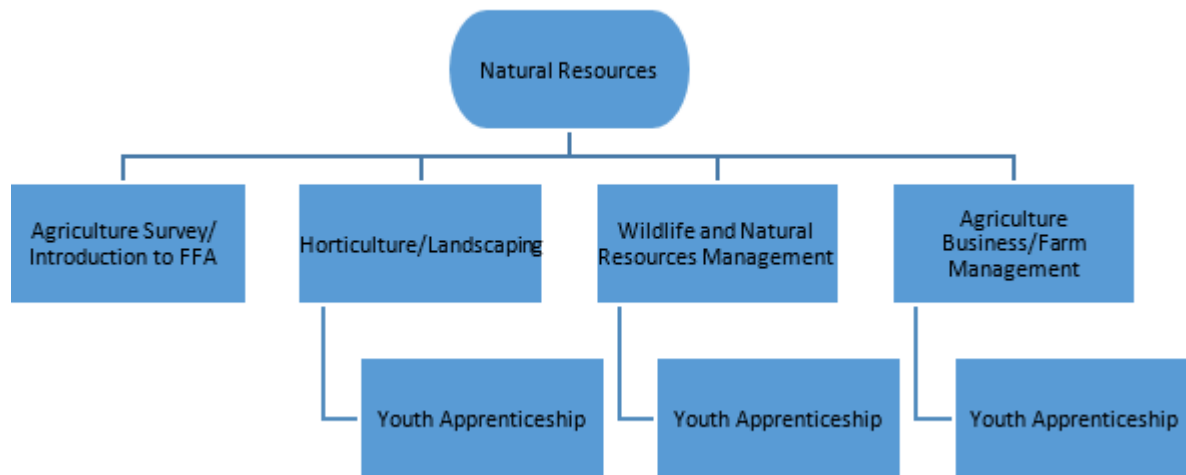
Intro to Technology & Engineering	.5	9-12	35
Engineering Design Principles	.5	9-12	35
Engineering Architectural Design	.5	10-12	35
Building Trades I	.5	10-12	35
Building Trades II	.5	11-12	35
Materials & Processes	.5	9-12	35
Metals Manufacturing I	.5	10-12	35
Metals Manufacturing II	.5	11-12	36
Manufacturing Youth Apprenticeship	.5, 1	12	36
Woods Manufacturing I	.5	10-12	36
Woods Manufacturing II	.5	11-12	36
Small Power Equipment	.5	10-12	36
Automotive Technology	.5, 1	11-12	36
Automotive Technology Youth App.	.5, 1	11-12	37

WORLD LANGUAGE

French 1	1	9-12	38
French 2	1	9-12	38
French 3	1	10-12	38
French 4	1	11-12	38
French 5	1	12	38
AP French Lang. and Culture (online)	1	12	38
Spanish 1	1	9-12	39
Spanish 2	1	9-12	39
Spanish 3	1	10-12	39
Spanish 4	1	11-12	40
Spanish 5	1	12	40
Spanish for Native Speakers	1	9-12	40
AP Spanish Lang. and Culture (online)	1	11-12	40
German 1 (online)	1	10-12	40
German 2 (online)	1	10-12	40

AGRICULTURE





AGRICULTURE SURVEY/ INTRODUCTION TO FFA

1 credit

Prerequisite: Grade 9 or 10

The Agriculture Survey/Introduction to FFA course teaches about a broad range of topics in agriculture. Students will be introduced to the many leadership opportunities and experiences that FFA has to offer. Student will also learn about the diversity of agriculture, agricultural products, agricultural career opportunities, the importance of agriculture to Wisconsin's economy, and about a broad range of National Agricultural topics and current events. Students will also participate in FFA career events and leadership development events

AGRI-SCIENCE & FOOD SCIENCE BIOTECHNOLOGY

1 credit

This course qualifies as an elective science credit after two science credits have been earned.

Prerequisite: Grades 10, 11, 12

Do you have an interest in agriculture and science? This course will explore and share how advances in science and technology have influenced the agricultural industry. Students will also have the opportunity to compete in the FFA Agri-Science competition. The following topics will be discussed:

- Food Science
- DNA
- Animal anatomy and physiology
- Genetics
- Animal reproduction and growth
- Biotechnology

HORTICULTURE/ LANDSCAPING

1 credit

This course qualifies for an elective science credit after two science credits have been earned.

Prerequisite: Grades 11, 12, or consent of instructor

Let's get our hands dirty, grow plants, work in the greenhouse, learn about soil types, annuals, and perennials, floriculture, and review exterior landscape and design for Wisconsin weather. Students will also have the opportunity to compete in FFA career development event competitions and SAE program opportunities. This course will focus on:

- Career opportunities
- Different varieties of plants, bushes, shrubs and trees
- Annuals, perennials, gardening and greenhouses
- Plant anatomy and soils
- Landscape design and planning

WILDLIFE AND NATURAL RESOURCES MANAGEMENT

1 credit

Prerequisite: Grades 11, 12; 10 w/ instructor consent

Do you enjoy wildlife and being in the outdoors? This class will focus on conservation of our forests, soil, water, wildlife, wetlands and all other natural resources. Students will learn about our national park system, Wisconsin's state parks, and

environmental concerns and challenges that society is facing today. Students will learn about careers in natural resources and conservation as well as have the opportunity to participate in FFA career development events.

LARGE ANIMALS & MEAT SCIENCE

.5 credit

Prerequisite: Grades 10, 11, 12

In this course students will learn the basics of animal husbandry and will review the importance of proper feeding/nutrition, breeding, animal health, and facilities management for the dairy, beef, sheep, swine, equine, goats, and exotics industries. Students will also learn dairy, equine, livestock, and meats evaluation skills and compete in FFA career development events and SAE project event activities.

VET SCIENCE/COMPANION ANIMAL SCIENCE

.5 credit

Prerequisite: Grades 10, 11, 12

Do you have an interest in companion animals and veterinary care? This course is designed to emphasize career areas in animal care and characteristic knowledge of small animals (dogs, cats, rabbits, guinea pigs, chinchillas, birds, fish, amphibians and reptiles). Students will be provided with basic knowledge of small animals, participate in FFA career development events and lab work will include animal care demos, blood and urine labs, disease/illness diagnosis, animal handling and observation. Topics will include:

- Intro. to Small Animal Care, History, Choosing A Pet
- Classifications, Breeds, Feeding & Exercise, Reproduction, Diseases, Ailments
- Animal Issues, Animal Rights vs Welfare
- Careers in Small Animal Science
- Student Project

AGRICULTURE BUSINESS/FARM MANAGEMENT

1 credit

Prerequisite: Grades 11, 12 or consent of instructor

This course will explore the importance of agri-business, as well as career opportunities that relate to agriculture business and farm management. Topics will include types of business structures, the importance of cooperatives in agriculture, starting and establishing a business, preparing a business plan, hiring and managing employees, agriculture marketing and sales, agriculture commodities, and agricultural law and insurance. Students will also prepare for and participate in FFA career development event competitions in the area of Ag Sales, Market Plan, and Farm Business Management.

Agriscience Youth Apprenticeship

.5 credit per semester

Level 1

.5 credits per semester for every 180 hours of paid work based experience

Prerequisite: Junior/Senior with an identified agriscience career major

If the student is serious about a career in the agriscience area, then this program is for them. This program involves being enrolled in courses that allow the student to gain the competencies needed for Plant Science or Animal Science. Plant science includes positions in horticulture (landscaping and greenhouse) and Animal includes Veterinary Technician. Students interested in Plant Science need to enroll in **Horticulture/Landscaping**. Students interested in Animal Science need to enroll in **Agri-Science & Food Science /Biotechnology and/or Large Animals & Meat Science Care or Vet-Science/Companion Animal Science**. Students must complete 450 hours of work experience and attain the competencies to obtain the Agriscience Youth Apprenticeship Certificate.

Agriscience Youth Apprenticeship

.5 credit per semester

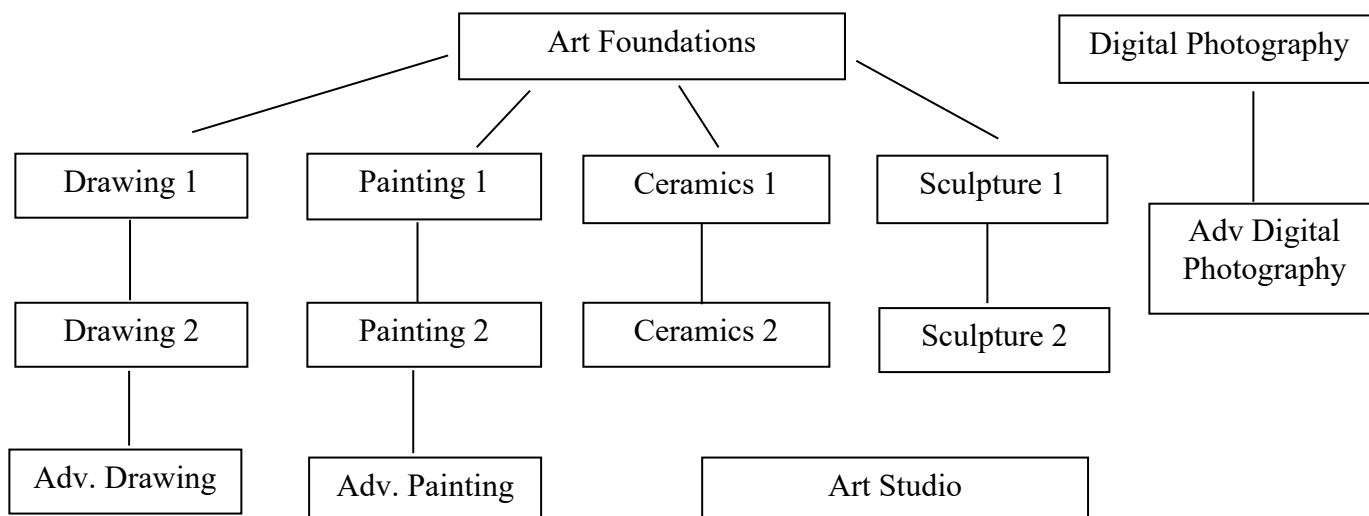
Level 2

.5 credits per semester for every 180 hours of paid work based experience

Prerequisite: Agriscience Youth Apprenticeship Level 1, Senior

Students will need to have completed the competencies of the Level 1 Youth Apprenticeship. They will then move into an individualized program for production agriculture.

ART



Art education, which includes art making, art heritage, art criticism and aesthetics, is a basic and integral part of the student's total education. In Lake Mills, the art program strives to enhance and guide the humanistic growth of each student by building pride, self-worth, confidence, and satisfaction. This is accomplished by fostering perceptiveness, visual literacy, creativity, aesthetic sensibility, critical thinking, problem solving, craftsmanship, and task commitment.

The high school art program offers students the experience of creating in a variety of media. It also provides an opportunity to look at, study and discuss art. In addition, career options in the visual arts are explored. All of these factors provide students with the background to have art become a part of their lives after high school.

ART FOUNDATIONS

1 credit

Prerequisite: Grade 9, 10, 11, 12

This course will expose students to the fundamental knowledge and experiences necessary for success in additional art classes. First semester will encourage students to develop skills in observational drawing and express their individual talents by completing a variety of unique and challenging projects in the multitude of 2-D media. Assignments emphasize design, craftsmanship, and problem solving. Units explore the fundamentals in working with such media as graphite pencils, charcoal, pen/ink, colored pencils, paint, and mixed media. Second semester, students will have the opportunity to discover working with a variety of techniques and materials to create 3-D works of art. Assignments will emphasize design, craftsmanship and problem solving while exploring the fundamentals needed when working with a variety of materials.

DRAWING 1

.5 credit

Prerequisite: Art Foundations

Students will use drawing to express themselves. Drawing is the basic language that an artist uses in order to create any work of art whether it be painting or making jewelry. This class teaches the student how to accurately see and record objects as seen from real life. Basic value and shading techniques are taught through a variety of media such as graphite and pastels.

DRAWING 2

.5 credit

Prerequisite: Drawing 1

Students will explore more complex drawing problems as they advance their drawing skills. Students will use higher level of detail to create more sophisticated artwork, while further developing skills in 2-D design and techniques with media such as colored pencils, marker, pen/ink, charcoal, etc.

PAINTING 1

.5 credit

Prerequisite: Art Foundations

This course will expose students to the basics of painting with acrylic and watercolor. Students will learn a variety of techniques and subject matters (landscape, portrait, figure, abstractions, etc.) We will cover the fundamentals of composition, color theory, form, tone, and blending colors. Group critiques will touch upon concepts crucial to the creative process.

PAINTING 2**.5 credit**

Prerequisite: Painting 1

Students will create advanced paintings that demonstrate a sense of purpose and understanding of the relationship among materials, techniques, and concepts. Students will engage in on-going assessment to revise and improve their paintings.

CERAMICS 1**.5 credit**

Prerequisite: Art Foundations

This course is designed for students who are interested in constructing with clay. During the first nine weeks the students will concentrate on the basics of forming clay on and off of the potter's wheel. The second nine weeks the students will focus on creatively applying the knowledge gained during the first nine weeks. Students will select a design from their sketches and build the clay form in a chosen construction technique. Students will express themselves in each project through the use of good proportion, surface decoration and craftsmanship. Sketches and quizzes are part of the semester grades.

CERAMICS 2**.5 credit**

Prerequisite: Ceramics 1

Ceramics 2 is designed for students who have already successfully completed Ceramics 1 and are looking to further enhance and develop their creative and intellectual skills. Students will be asked to formulate a central concentration on them that will act as a catalyst for the creation of a unified body of artwork. Students will be asked to complete sketchbook assignments, research historically significant artists and write reflectively about their creative process.

SCULPTURE 1**.5 credit**

Prerequisite: Art Foundations

Sculpture class is designed for the student that loves to create with his/her hands. Students will explore the different mediums available to create 3-dimensional artwork. Paper Mache, plaster, cardboard, recycled items, foam board, and other mediums will be used. Students will be expected to research famous sculptors. Most work will be done independently, but small groups will occasionally create large pieces.

SCULPTURE 2**5 credit**

Prerequisite: Sculpture 1

This course will be a continuation of Sculpture 1 as students further explore the development of three dimensional forms. We will also investigate methods of working in three-dimensions including additive, subtractive, fabrication, and assemblage.

ADVANCED PAINTING**.5 credit per semester, 1 credit for year**

Prerequisite: Painting 2

Advanced Painting is a semester course placed within the upper level of visual arts for students that need more guidance than offered in Art Studio. This course is designed to follow one year of Painting, adding to the student's art vocabulary and painting techniques. Focusing on creative expression, students are encouraged to stretch their imagination and communicate their ideas through further exploration of various painting techniques. Students will continue to work on technical skills but at this level, focus is placed on creative expression and work that makes a visual statement. Assignments will be designed to meet the needs of the individual students. Students are encouraged to experiment on a larger scale, taking the time needed to produce significant works.

Cost: There is a \$20 materials fee for this course.

ADVANCED DRAWING**.5 credit per semester, 1 credit for year**

Prerequisite: Drawing 2

Advanced Drawing is a one semester course placed within the upper level of visual arts electives. This course is designed for those students who want to have more freedom with their subject matter but need more guidance than what is offered in Art Studio. Students will continue to work on technical skills but at this level, the focus is placed on creative expression and work that makes a visual statement. Assignments will be designed to meet the needs of the individual students.

Cost: There is a \$20 materials fee for this course.

ART STUDIO**.5 credit per semester, 1 credit for year**

Prerequisite: 3 credits of previous art classes and instructor approval.

This course is for the student who is interested in continuing his/her art career and further developing their art skills through a more independent means. Students will be required to submit progress reports, participate in verbal critiques with the instructor or class, and produce four quality pieces of art each semester. Students will also be expected to compete in art shows.

DIGITAL PHOTOGRAPHY**.5 credit**

Prerequisite: Grades 9, 10, 11, 12

This course explores the functions of the digital single lens (DSLR) camera. Students will understand the specific setting of aperture, shutter speed and ISO to produce properly exposed images, as well as understanding of composition, depth of field,

lighting, and other techniques for producing high quality photographs. Students will also learn Photoshop skills to edit photos and produce better quality images.

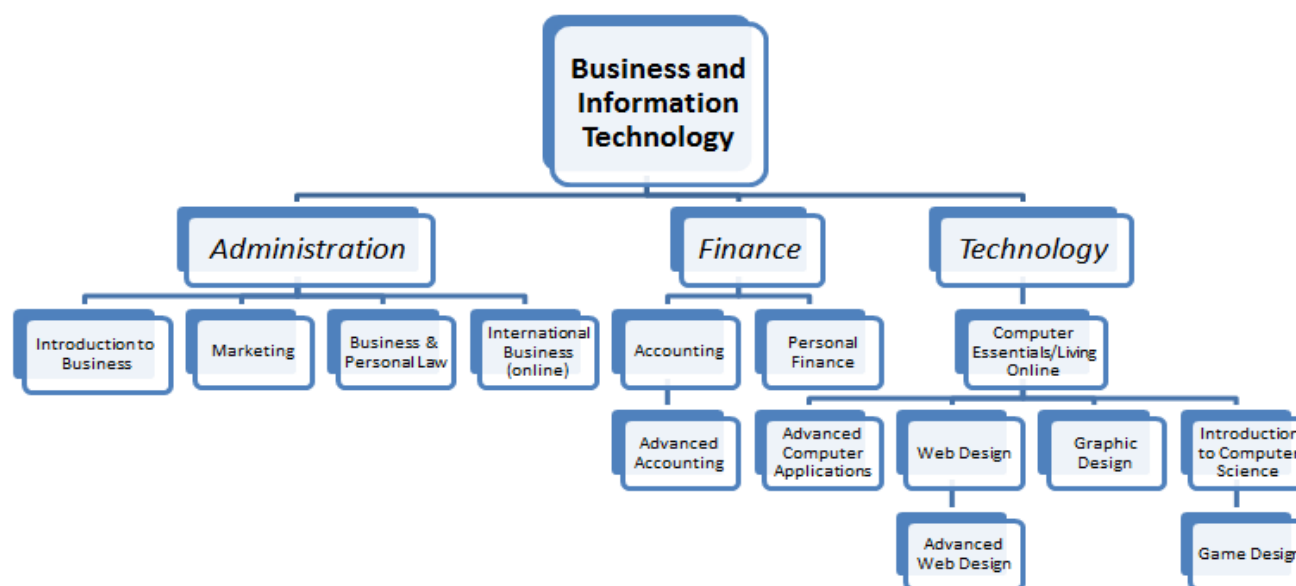
ADVANCED DIGITAL PHOTOGRAPHY

.5 credit

Prerequisite: Digital Photography

This course further explores the use of digital photography and students will continue more in-depth concepts of photography and Photoshop. Students will work with combining multiple images into one photo, creating layouts for magazines, product advertisement, and other digital production.

BUSINESS AND INFORMATION TECHNOLOGY



COMPUTER ESSENTIALS

.5 credit

Prerequisites: Grades 9, 10, 11, 12 (formerly Microsoft Office/Information Technology)

A recommended course for all students and a prerequisite for further technology courses.

Learn skills necessary to function in the age of technology. You must be able to effectively use technology to research, organize, create, and evaluate information both for personal and business use. You will gain further knowledge and proficiency in using **Microsoft Office Programs: Word** – Business and Personal Documents; **Excel** – Spreadsheets (the #1 software colleges and the workforce want you to know!); **Powerpoint**- Presentations. Microsoft Office is still the main software used by businesses and colleges. You will also learn the basics of computer hardware and software; how technology affects the world in which we live and work; social and ethical issues around the Internet; and how to effectively use **Google Applications**. Keyboarding skills will also be enhanced.

ADVANCED COMPUTER APPLICATIONS

1 credit

Prerequisites: Grades 10, 11, 12; Computer Essentials

This is a dual credit course with Madison College. Course equivalents: Beginning Excel, Beginning Access and Beginning Publisher

This course provides an advanced level of Microsoft Office Word, Excel and Power Point. The other two main Microsoft Office programs: **Publisher**-Marketing Pieces, and **Access** – Database Creation and Management, are introduced. Also, Adobe products will be explored including InDesign, Photoshop and Illustrator. The focus is on creating real world marketing and business documents. You will learn desktop publishing principles to create marketing and business documents such as newsletters, flyers, letterhead, business cards, invoices, etc. Online web tools are also explored, as well as how businesses are effectively utilizing social media to promote who they are and what they do on Facebook, Instagram, Twitter, LinkedIn,

YouTube, etc. Other topics include systems security and how to protect an organization's information and the latest technology advancements. You will work independently on projects and in groups and emphasis is on problem-solving and being resourceful.

WEB DESIGN

.5 credit

Prerequisites: 10, 11, 12

This is a dual credit course with Madison College. Course equivalent: HTML Beginning.

Have fun designing web pages and let your creative side show by using Adobe Dreamweaver, Adobe Photoshop and Notepad++. Learn the history behind the web and how the web actually works. Learn the do's and don'ts of web page design by evaluating existing web pages. You will learn how to use web design languages including HTML and CSS to design your own personal website. Through real-world design scenarios and hands-on projects, you will learn how to create compelling, usable websites. **This course is offered first semester only.**

ADVANCED WEB DESIGN

.5 credit

Prerequisite: Grades 10, 11, 12 and Web Design

This course enhances the more advanced features of Adobe Dreamweaver, Notepad++ and introduces multimedia elements. You will continue to expand on HTML and CSS web languages already learned in Web Design. You will also learn new languages such as JavaScript, jQuery, PHP and SQL. You will create professional, up-to-date websites that are pleasing to the eye and easy to navigate and can be used on all devices from a desktop PC to smartphones. These professional web pages you create will showcase your work. As a culminating project, you will create a client website for a business. **This course is offered second semester only.**

GRAPHIC DESIGN

.5 credit

Prerequisite: Grades 10, 11, 12

This is a dual credit course with Madison College. Course equivalent: Adobe Photoshop Beginning

This course is for those who want to do professional graphic designing and manipulation of photos. You will learn the basics of composition, color and layout through the use of hands-on projects that allow you to use your creativity while developing important foundational skills. Adobe Illustrator and Adobe Photoshop are used to create a graphic design portfolio with a variety of projects. Examples of graphics that will be created include, but are not limited to, logos, infographics, posters, illustrations, portraits, etc. These projects will help you develop the skills you need to create and edit images for professional and personal use. **This course is offered first semester only.**

INTRODUCTION TO COMPUTER SCIENCE

.5 credit

Prerequisite: Grades 10, 11, 12

A recommended course for anyone exploring the Information Technology field of careers.

This course introduces you to computer science concepts such as algorithms, programming, computer hardware/software, data analysis, application design, and networks. You will use basic programming to produce finished software programs such as a phone application. You will use the design process to create different programs by determining the specifications, designing the program and testing and improving the product until it meets the specifications. By the end of the course, you will have a solid foundation for further study in computer science.

GAME DESIGN

.5 credit

Prerequisites: Grades 10, 11, 12

This course is for everyone who loves gaming and wants to design and build original games from scratch. You will learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, you will learn about all aspects of the game-design process. From there, it is on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development. **This course is offered second semester only.**

INTRODUCTION TO BUSINESS

.5 credit

Prerequisites: Grades 9, 10

A recommended course for all students that will focus on the skills needed to succeed in any career.

You will be introduced to the world of work with a broad range of topics – some of which include entrepreneurship (owning your own business), the economy, management and marketing functions, and international business. Instruction will emphasize transferable skills, such as leadership, creativity, teamwork, communication, flexibility and overall work ethics.

BUSINESS AND PERSONAL LAW

.5 credit

Prerequisite: Grades 10, 11, 12

A recommended course for students to be prepared as a consumer and/or for a student interested in business or law as a career.

Laws are a part of everyday life. In this course, you will learn your legal rights and responsibilities through textbooks, speakers, online materials, and mock trials. You will learn about the history of laws and how they relate to business, personal life, and society. You will study true scenarios that show how law impacts not only business but the lives of adults, such as getting a job,

renting an apartment, obtaining a loan, getting married, etc. In addition, you will learn more about the many law-related careers, visit a courtroom and participate in a mock trial with a jury.

MARKETING IN THE 21ST CENTURY

.5 credit

Prerequisite: Grades 11, 12

A recommended course for students pursuing business in college and/or just want to try something different!

This course provides an overview of the exciting world of marketing as an important part of business. Today's consumers are different than ever before. Social media and digital marketing are examined, as well as product design, pricing, promotion, distribution, advertising, sales, slogans and logos. A look at specific industries, such as fashion, sports and international marketing, is included. Also, various marketing careers and educational tracks are explored. Marketing is a core course for many college majors – see what it's all about and take it now! **This course is offered second semester only.**

ACCOUNTING

This is a dual credit course with Madison College.

1 credit



Prerequisites: Grades 11, 12

An absolute must class for students planning on pursuing business in college.

You will learn the practical application of accounting, a system of recording financial transactions of a business known as the "language of business." Emphasis will be placed on students understanding the "why" behind accounting transactions and how a business is affected, in addition to interpreting and analyzing financial statements. Accountants are in high demand and many rewarding career opportunities are possible. Accounting is a required course for all business students in college and studies show that students who take accounting in high school are more successful at the college level.

Upon successful completion of this course with a C or better, you will earn four credits at Madison College. Credit are also transferable at some public and private universities.

ADVANCED ACCOUNTING

1 credit

Prerequisite: Grade 12 and "A" or "B" grade in Accounting

This is a unique course with special requirements and expectations and is approved on a case-by-case basis. See Mrs. Iverson for details.

You will get a more in-depth study of accounting by gaining more background in departmental, cost, managerial and corporate accounting, as well as experience with automated accounting. This is an independent course with special requirements and expectations. In addition to gaining additional accounting knowledge from a textbook, you will be part of a team that is responsible for and manages all operations of the school store. You will gain hands-on experience operating a real business. If you are willing to work hard and be a leader, this class is for you!

PERSONAL FINANCE

.5 credit

Prerequisite: Grades 11, 12

This course is a must for all! What is your vision for your future and how will you get there? This course focuses on overall personal money management. You will learn about budgeting, financial goal setting, saving, investing, insurance, identity theft and using credit wisely. This course is designed to help you prepare financially for your role as a citizen/worker. You will also get to complete a "real world" simulation, which gives students a chance to practice their budgeting skills with a hypothetical family situation.

INTERNATIONAL BUSINESS (online)

.5 credit

Prerequisite: Grades 10, 11, 12; Intro. to Business or Marketing

How does international business affect you and your future? It is an ever-changing interesting field that affects everyone across the globe. Consumers buy products made in countries all around the world. International trade and global competition change employment opportunities for workers. This course explores international business topics such as international communications, customs, trade practices, languages, legal systems, currency systems and roles of individuals.

AP COMPUTER SCIENCE (JAVA) (online)

1 credit

Prerequisite: Grades 11, 12; Intro. To Computer Science

AP Computer Science teaches object-oriented programming using Java language and is meant to be the equivalent of a first semester college level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. The course teaches fundamental programming topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and ethical and social implications of computing. Additional hours beyond classroom time are required in order to keep pace in the courses and to prepare students for the end-of-course AP exam.

BUSINESS YOUTH APPRENTICESHIP (Finance or Technology)**.5 - 1 credit**

Prerequisite: Grades 11,12 and currently enrolled in related business education course

This "course" will enable students to gain valuable work experience specializing in either Finance, Marketing or IT. Students will attain on-the-job training at a local business. This experience will produce competencies that include the knowledge, attitudes, work habits and skills demanded in the workplace. There is a written agreement between the school, employer, parent/guardian and student to assure a variety of learning experiences for the student. Students are required to work an average minimum of 10 hours per week. Additional hours may be worked. Students earn school credit in addition to being paid at least minimum wage. Regular supervision will be provided by the Business and Information Technology Instructor.

Students who register go through an application process to be accepted into the program. Acceptance criteria will include: attendance, GPA, teacher recommendations and high school credits at grade level. These one- or two-year programs provide academic and occupational skills necessary for employment and/or advanced standing in a post-secondary technical program. Upon successful completion of a Youth Apprenticeship program, students may receive, in addition to high school credit, advanced standing credit toward an Associate Degree, if they enroll in a Wisconsin Technical College System program. Students will also receive a Certificate of Occupational Proficiency from the Wisconsin Department of Workforce Development upon completion of the program. Involvement in Youth Apprenticeship programs is also beneficial when applying to college and for scholarships.

CAREER EDUCATION

TEACHER AIDE**.25 credit per semester**

Prerequisite: Grade 11, 12

Teacher aides are students who work in the school office or with a classroom teacher. They may work with individuals, small groups, or assist the teacher as necessary. An application is required, which is available in the guidance office. When the semester begins, a contract is established with the student and teacher that outlines objectives, activities, and evaluation procedure.

WORK EXPERIENCE**.25 credit per semester**

Prerequisite: Grade 11, 12

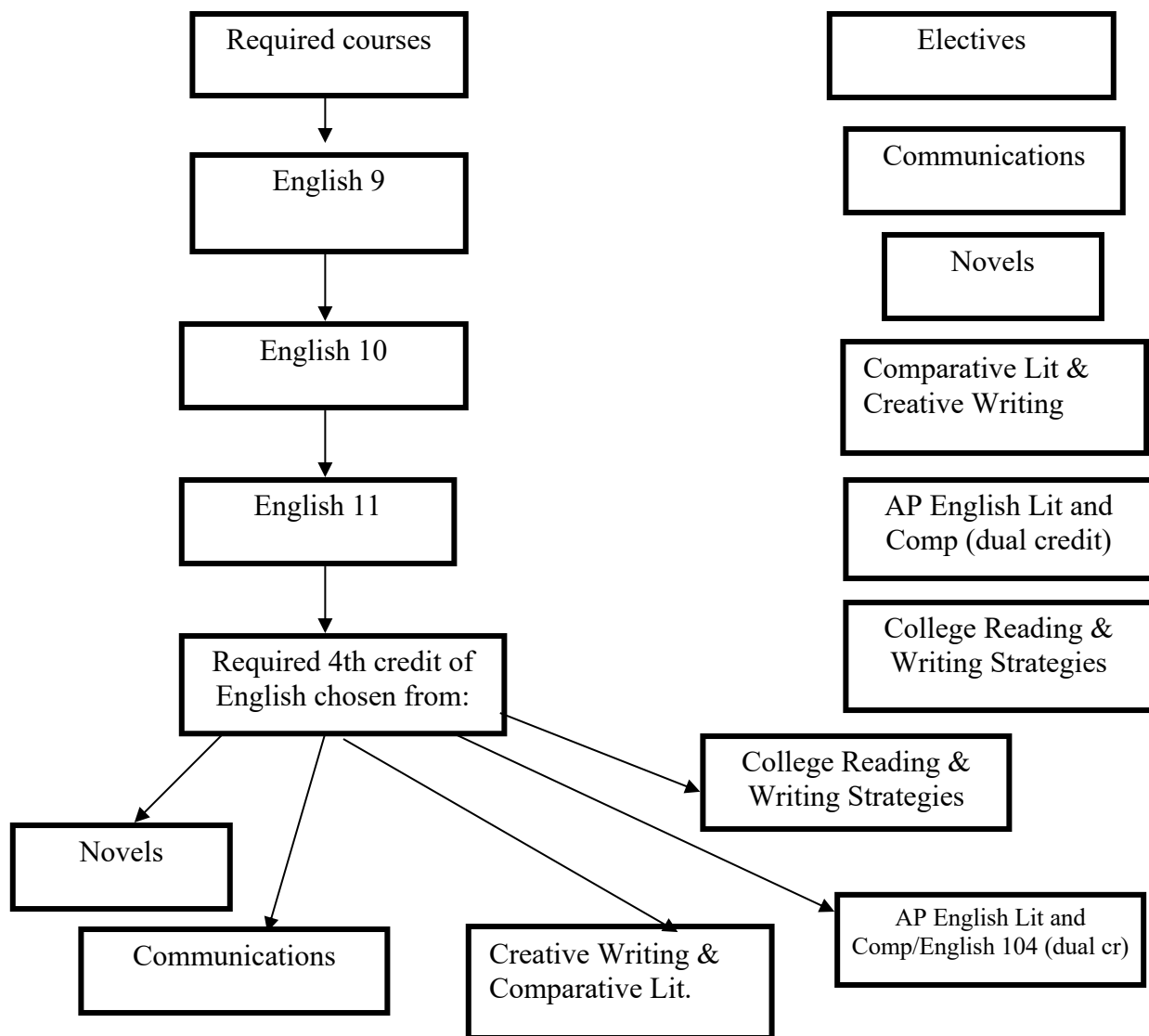
Work Experience is meant to relate the work world to school for the student and the courses they are taking in school. This course provides students with an opportunity to receive school credit for working outside of school. Students must obtain a certified paid position at a job site that is subject to approval by the work experience coordinator. To gain approval, they must complete a signed contract with school officials, their parents, and their employer. The student will then track their hours weekly and reflect on their job experiences by completing weekly time sheets that make up 20% of the grade. The final 80% of the grade is made up by a final evaluation that the students' employer will fill out evaluating the student on many different work related skills. A student must work a minimum total of 150 hours per semester and not be unemployed for more than three weeks per semester. Students will be removed from the course and receive an "F" if they cannot meet any of these minimum requirements within the withdraw window.

CHARACTER DEVELOPMENT AND LEADERSHIP (CD & L)**.5 credit**

Prerequisite: Grade 9, 10, 11, 12

This course is sweeping the country! The curriculum is designed to improve the character and leadership traits of our students. The goal of the course is to prepare students for success in all facets of their lives. The format includes ethical dilemmas, popular movies highlighting character traits, leadership principles, on-line blog posts, role model textbook readings, basic skills, quote exercises, and expository writing assignments.

ENGLISH



ENGLISH 9

1 credit

Prerequisite: Grade 9

This course provides an introductory background in the study and enjoyment of literature. Grammar, usage and vocabulary are included. Complementary units integrated throughout the year stress the writing process and use of the library.

ENGLISH 10

1 credit

Prerequisite: Grade 10

English 10 stresses literature through the study of short stories, poetry, essays, plays, and novels. The improvement of writing is emphasized. Grammar and usage are reviewed and applied in assignments using the writing process. English 10 students will also create a resume.

ENGLISH 11**1 credit**

Prerequisite: Grade 11

English 11 is a study of American literature (short stories, essays, poetry, novels and plays) and American authors with the aim of understanding how history has influenced authors and their works. Students will also gain a better understanding of their national heritage through the study of literature. Frequent compositions are written as a means to review grammar and usage and to further develop analysis and writing skills. A major research paper is written on a topic of the student's choice.

CREATIVE WRITING AND COMPARATIVE LITERATURE**1 credit**

Prerequisite: Grade 12

In this class students will have the opportunity to explore creative writing in a variety of formats using various techniques. Students will read and analyze short stories, novels, poetry, drama. They will compose original written pieces often inspired by class reading. Writing instruction will focus on improving and strengthening grammar, usage and mechanics, and literary analysis. An emphasis is placed on college prep writing and writing for real audiences.

NOVELS**1 credit**

Prerequisite: Grade 11, 12

Students read and discuss novels. Topics discussed may be questions of interpretation, critical analysis or social issues evolving from the content of the novel. Sophistication of already functional discussion skills is also emphasized.

COMMUNICATIONS**1 credit**

Prerequisite: Grade 10, 11, 12

Communicating with oneself, with another, within groups, before groups is the scope of this class. All aspects of communication, from non-verbal to written speech are covered. Students will gain stage presence and self-knowledge about their styles of communication.

COLLEGE READING AND WRITING STRATEGIES**This is a dual credit course with Madison College.****1 credit**

Prerequisite: Grade 12

This course focuses on enhancing college reading and study techniques and offers students extended practice in applying these strategies to a variety of college level materials. Emphasis will be given to developing the critical thinking and reading skills necessary to be successful college readers. This course also introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents.

AP ENGLISH LITERATURE & COMPOSITION**1 credit**

Prerequisite: Grade 12; English 11 & instructor approval

The goal of this course is to prepare students for college level work and for the AP English Literature and Composition exam. Students will develop their ability to read, analyze and write about world literature (fiction drama and poetry) through the use of university-level materials and assessments. The analytical writing skills developed in this course serve as the foundation for university-level writing in a variety of situations and subject areas. Students can choose to take the AP exam in May, for which they may be able to earn university credit. *Students can expect 3-5 hours of homework per week, including reading literary texts and drafting and revising essays.*

ENGLISH 104 INTRO. TO LITERATURE**1 credit****This is a dual credit course with UW Green Bay**

Prerequisite: Grade 12, English 11 & instructor approval

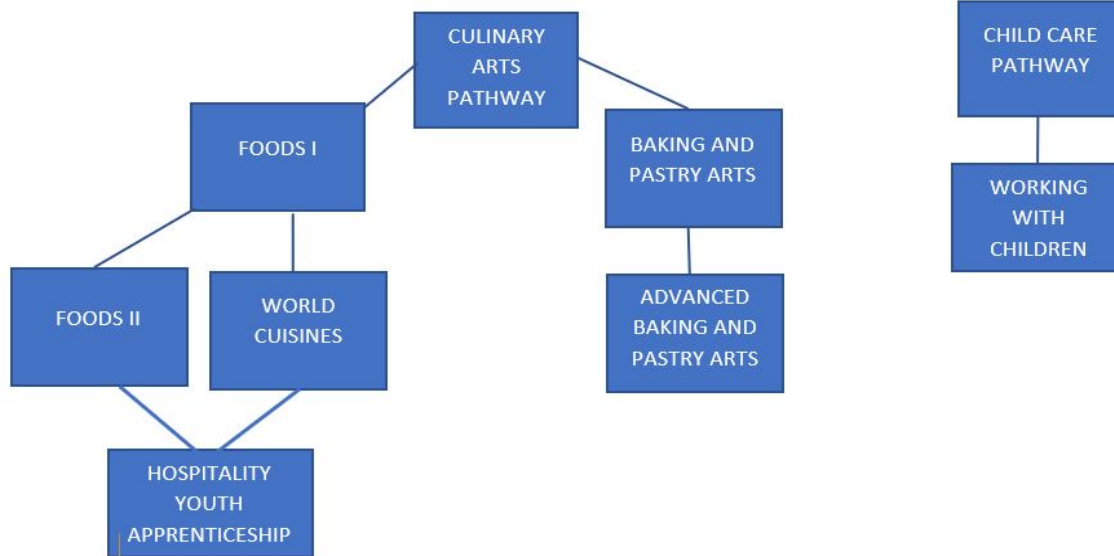
The content of this course is the same as AP Literature, without the AP exam option. Students can earn university credit at a reduced tuition through the College Credit in High School (CCHS) program through UW Green Bay. This credit transfers to many other universities, especially UW System schools.

AP ENGLISH LANGUAGE AND COMPOSITION (online)**1 credit**

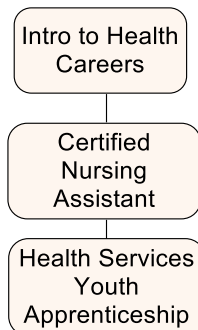
Prerequisite: Grade 11, 12 ; at least a B- grade in most recent English course

Students learn to understand and analyze complex styles of writing by reading works from a variety of authors. They will explore the richness, including syntax, imitation, word choice, and tone. They will also learn about their own composition style and process, starting with exploration, planning, and writing, and continuing through editing, peer review, rewriting, polishing, and applying what they learn to a breadth of academic, personal, and professional contexts. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature and composition. Additional hours beyond classroom time are required in order to keep pace in the course.

FAMILY AND CONSUMER SCIENCE



HEALTH SERVICES



FOODS I

.5 credit

Prerequisite: Grades 9,10,11,12

Through hands-on experiences, students will learn the fundamental food preparations techniques of:

- Pasta
- Vegetables
- Fruits
- Milk and Cheese
- Eggs
- Meat
- Poultry
- Fish and shellfish
- Salads

- Casseroles
- Soups

Cost: There is a lab fee for this course.

Studying of content knowledge outside the classroom is expected to be successful.

FOODS II

.5 credit

Prerequisite: Grades 9, 10, 11, 12; Foods I

Utilizing knowledge and skills gained in Foods I, we will be exploring advanced food preparation skills as well as planning and preparing complete meals and dishes. Additional topics in this course will be relating to running a food service business including food costing, food shopping and recipe scaling. Studying of content knowledge outside the classroom is expected to be successful.

Cost: There is a lab fee for this course.

BAKING AND PASTRY ARTS

.5 credit

Prerequisite: Grades 9,10,11,12

This course will allow students to acquire the skills necessary to become an experienced baker. Students will learn food science principles while preparing the following categories of baked goods:

Quick breads, yeast breads, cookies, cakes, pies, specialty desserts and candy.

Cost: There is a lab fee for this course.

Studying of content knowledge outside the classroom is expected to be successful.

ADVANCED BAKING AND PASTRY ARTS

.5 credit

Prerequisite: Grades 9, 10, 11, 12; Baking and Pastry Arts

Utilizing knowledge and skills gained in Baking and Pastry Arts, we will be exploring advanced baking and pastry skills as well as planning and preparing desserts. Additional topics in this course will be relating to food costing, food shopping and recipe scaling. Studying of content knowledge outside the classroom is expected to be successful.

Cost: There is a lab fee for this course.

WORLD CUISINES

.5 credit

Prerequisite: Grades 10, 11, 12 and Food I

Cultural cooking is explored through a study of regional foods in the United States and foods from around the world including: *New England, Mid-Atlantic, South, West, Southwest, Mexico, British Isles, France, Germany, Spain, Italy, Middle East and Africa.* Students are also introduced to the many factors that influence food choices. There is a lab fee for this course.

Studying of content knowledge outside the classroom is expected to be successful.

Hospitality Youth Apprenticeship

1 credit

Prerequisite: Junior or Senior standing and has taken one food course and currently enrolled in one additional food course.

This is a program for juniors and seniors who have a career interest in the hospitality field.

The student can be employed at local restaurants, fast food establishments, school food service and other food service facilities. They need to work preferably a minimum of 10 hours a week. The time depends on the student's schedule and the employer's needs. A student should be employed the entire school year in order to obtain their Youth Apprenticeship Hospitality Certification. For the Youth Apprenticeship certification the students will need to attain: Core Skills, Safety & Security, Food & Beverage (Dining Area and Kitchen Area) and 450 hours of work experience.

One credit per semester for class and on-the-job training is what the student receives for participating in this program. The student is paid the same wages as all other beginning employees within state and federal guidelines. This program is a great way to find out if this career area is for them.

WORKING WITH CHILDREN

.5 credit

Prerequisite: Grades 9,10,11,12

Whether your career plans involve interactions with children or becoming a parent in your future, taking this class is a must.

Subjects covered include:

- Pregnancy and prenatal development
- The birthing process
- Physical development of infants, toddlers, and preschoolers

- Emotional and social development of infants, toddlers, and preschoolers
- Intellectual development of infants, toddlers, and preschoolers

In addition, students will have the opportunity for hands-on experiences working with children in the community.

HOSPITALITY & TOURISM 1 (online)

.5 credit

Prerequisite: Grades 10, 11, 12

This course will introduce students to a thriving industry that caters to the needs of travelers through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality. Operating busy tourist locations, creating marketing around the world of leisure and travel, spotting trends, and planning events are just a few of the key aspects covered in this course.

HOSPITALITY & TOURISM 2 (online)

.5 credit

Prerequisite: Hospitality & Tourism I

If you love working with people, a future in hospitality may be for you. In Hospitality and Tourism 11: Hotel and Restaurant Management, you will learn about what makes the hotel and restaurant industries unique. Learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Evaluate the environment for these businesses by examining their customers and their competition. As well, you will discover trends and technological advances that makes each industry exciting and innovative. You can explore a variety of interesting job options from Front Desk and Concierge services to Maitre d' and food service.

INTRODUCTION TO HEALTH CAREERS

.5 credit

Prerequisite: Grade 9, 10, 11, 12

This course will familiarize you with career opportunities in the health field, one of the most rapid-growing areas of employability.

Topics covered include:

- Career opportunities in the health field
- Body systems
- Employability skills
- Legal responsibilities and Ethics
- Health maintenance
- Technical skills
- Medical terminology

Anyone planning to take CNA training should take this class.

MEDICAL TERMINOLOGY 10-501-101 (online)

.75 credit

This is a dual credit course with Blackhawk Technical College.

Prerequisite: Grade 11, 12; Intro. to Health Careers and/or B- average in all high school science courses

This course focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis is on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology, is included. Because this is a college level course, weekly due dates are firm.

Health Services Youth Apprenticeship

1 credit

Prerequisite: Senior standing and Introduction to Health Careers and identified career in the health area

Students who enroll in this program are interested in pursuing a career in the health services area and are currently enrolled in the Certified Nursing Assistant (CNA) course.

The students can be employed in any health care institution that can work with the student in attaining the youth apprenticeship competencies. They should also provide a mentor who is willing to work with the students.

This is a one year program with students in paid training 450 hours minimum for the one year program. Students usually receive 1/2 credit per semester for the classroom and work based training. Pay is determined by the youth apprenticeship employers.

Students in the one year program must complete a minimum of one specialty area. The specialty areas for this program are:

Health Care Foundations
Health Information Management

Medical Assistant
Nursing Assistant
Pharmacy Technician

INDEPENDENT STUDY

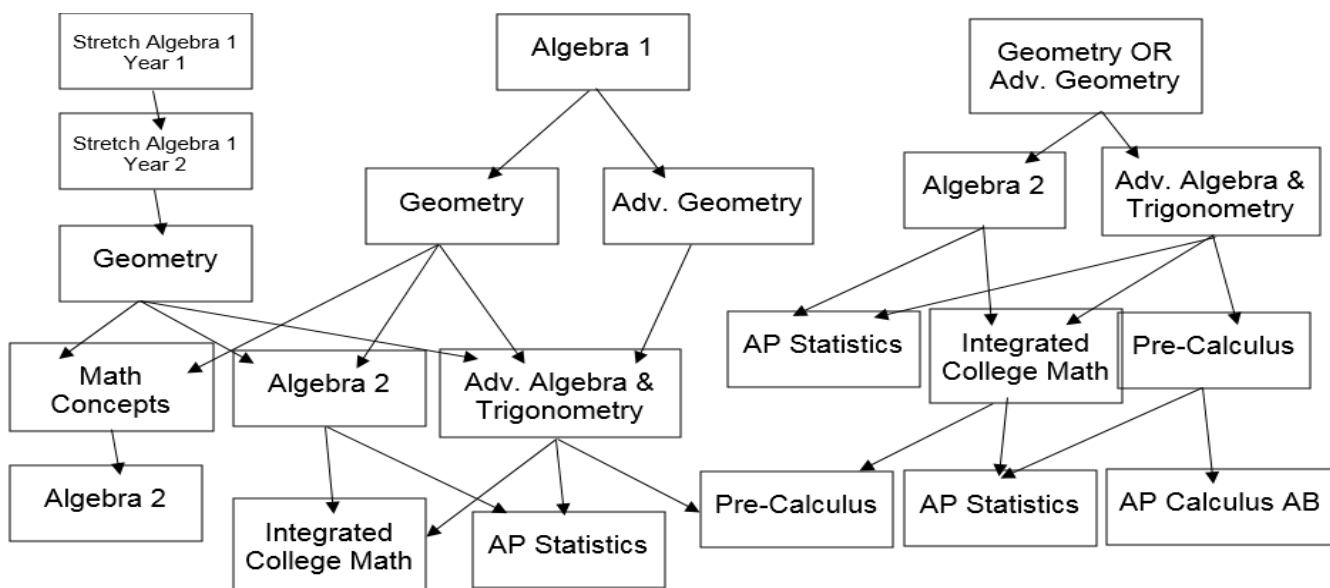
INDEPENDENT STUDY

.5 credit

Prerequisite: Grade 11, 12 and consent of instructor

Independent study provides an opportunity for students to pursue a study or research program in an area of his/her choice. A student first finds an advisor in the department from which he/she wishes to earn credit. After securing an application from the guidance office, the student meets with his/her advisor to work out a mutual agreement on objectives, activities, and evaluation procedures in the form of a contract.

MATHEMATICS



STRETCH ALGEBRA YEAR 1 (1st year of two- year course)

1 credit

Prerequisite: Grade 9 AND consent of 8th grade math teacher

This is year one of a two-year course designed for students who need more time to cover Algebraic concepts in an in-depth and slowed down manner. We will begin the course relearning the basic arithmetic properties that were confusing in middle school so that connections can be made between elementary arithmetic and the abstract concepts of Algebra. Algebraic topics to be covered in year one include the language and properties of Algebra, operations involving integers, solving algebraic equations, problem solving, basic statistics, functions and linear equations. After successful completion of Algebra 1, students will advance to year 2 of Stretch Algebra to complete the state requirement for Algebra.

STRETCH ALGEBRA YEAR 2 (2nd year of two-year course)

1 credit

Prerequisite: Stretch Algebra Year 1

This is the second year of a two- year course designed for students who need more time to cover Algebraic concepts in an in-depth and slowed down manner. We will begin the year by doing a quick review of concepts covered in Stretch Algebra Year 1 and the cover the topics of powers and roots, polynomials, factoring, quadratic equations, inequalities, systems of linear equations and inequalities, and radical expressions and equations. After successful completion of BOTH years of this course,

students will have met their state Algebra requirement. A scientific calculator will be used throughout the year. The TI-30Xa or equivalent is the recommended calculator for this course as it will be used all four years of high school math and science.

ALGEBRA

1 credit

Prerequisite: Grade 9

Algebra is an entry level math course for those incoming freshmen who are placed by the middle school math department. Included in this curriculum is the study of number systems, properties, equations, inequalities, functions, exponents, factoring, slopes, graphing, square roots, quadratics, problem solving, and basic statistics. Algebra is the beginning of a four year sequence of college prep math. Students will be introduced to basic concepts of probability and statistical analysis. A scientific calculator is strongly encouraged for any student taking Algebra. The TI-30Xa, or equivalent, is the recommended calculator for this course. This calculator will be used for all four years of high school math and science.

GEOMETRY

1 credit

Prerequisite: Algebra or Stretch Algebra Year 2

This course introduces students to the inductive and deductive reasoning necessary to prove angle relationships involving linear pairs, vertical angles, parallel lines, triangles, quadrilaterals, and circles. Students perform constructions using a straight edge and a compass, as well as dynamic Geometry software. The class explores transformations on the plane by hand and using technology. Students apply theorems involving congruence and similarity. Applications of area, volume, and trigonometry are used to solve real world problems. A scientific calculator is required for this course.

ADVANCED GEOMETRY

1 credit

Prerequisites: Algebra AND consent of Algebra teacher

Advanced Geometry covers the same content as Geometry but at a higher level. Students will explore the ideas of Advanced Geometry in depth by making and justifying conjectures, and critiquing and revising the thinking of others. Students will discover relationships using inductive reasoning and then prove them with deductive arguments. Dynamic Geometry software will be used on a regular basis to discover, prove, and disprove ideas. Students will be challenged to apply the ideas they discover to solve real world problems. A scientific calculator is required for this course.



MATHEMATICAL CONCEPTS AND ANALYSIS

This course is a dual credit course with Madison College.

1 credit

Prerequisite: Grade 11, 12 AND consent of last math teacher

This course offers traditional algebra topics with applications. The student will develop algebraic problem solving techniques needed for more advanced algebraic studies. Topics include linear equations, exponents, polynomials, rational expressions, roots and radicals. All students should provide own scientific calculator. The TI-30Xa, or equivalent, is the recommended calculator for this course. Upon successful completion of this course with a 76% average or better and a C on the final exam, dual credit at Madison College (MATC) may be possible.

ALGEBRA 2

1 credit

Prerequisite: Geometry or Advanced Geometry

The first half of this course is designed to review the fundamental algebraic processes first explored in Algebra. These processes will be further developed and explored. The second half of this course consists of the in-depth study of functions, quadratic relations and their graphs, exponential functions; basic geometric trigonometry will also be reviewed in preparation for students planning to take the ACT. The use of scientific calculators will be required. The TI-30Xa, or equivalent, is the recommended calculator for this course. Graphing calculators (the TI-83) will be used but are NOT required for this course.

ADVANCED ALGEBRA /TRIGONOMETRY

1 credit

Prerequisite: Geometry or Advanced Geometry and teacher recommendation

The first half of this course is designed to review the fundamental algebraic processes first explored in Algebra. These processes will be further developed and explored. The second half of the course consists of the study of polynomial, rational and exponential functions as well as analysis of their graphs. Students will be introduced to logarithms, and trigonometry. The TI-30XIIS, or equivalent, is the recommended calculator for this course. Graphing calculators (the TI-30Xa, or equivalent, is the recommended calculator for this course. Graphing calculators (the TI-83 and/or TI-84) will be used but are NOT required for this course.

INTEGRATED COLLEGE MATH

1 credit

Prerequisite: Algebra 2 AND consent of Algebra 2 teacher

Through activities, investigations and the use of technology, students develop a conceptual understanding of linear, exponential, quadratic, trigonometric and logarithmic functions. Students learn how to transform all families of functions, and Series and explore elementary college statistics. A graphing calculator (the TI-83 or TI-84 Silver Plus,) will be used and is *strongly recommended*, but not required for this course. At the least, a student should have a scientific calculator. (Students planning on taking upper level math classes in college need a graphing calculator).

NOTE: Any student who has successfully completed Advanced Algebra/Trigonometry cannot receive credit for Integrated College Math since mastery of these topics has already been established.

PRE-CALCULUS

1 credit

Prerequisite: Advanced Algebra/Trig AND consent of Int. College Math or Advanced Algebra/Trigonometry teacher

This is the fourth course in the college preparatory sequence which enables the student to enter a first year calculus course. The purpose of the course is to give the students a solid background in a wide variety of topics in mathematics, including logic, relations, functions, analytic geometry, trigonometry, polynomials, vectors, matrices, probability, and introductory calculus. Use of the graphing calculator will be an integral part of the first semester. The TI-30Xa, or equivalent, is the recommended calculator for this course. Graphing calculators (the TI-83 and/or TI-84 Silver Plus) will be used and are required for this course.

AP CALCULUS AB

1 credit

Prerequisite: Pre-Calculus AND consent of Pre-Calculus teacher

This course covers the full curriculum of first semester college calculus. Topics that are covered are limit theory, continuity, differentiation, implicit differentiation, applications of differentiation, curve sketching, anti-derivatives, area under and between curves, the fundamental theorem of calculus, differentiation and integration of logarithmic exponential, trigonometric, and other transcendental functions, l'Hopital's rule, and revolution of solids. The AP exam is offered at the beginning of May, so the course is set at an accelerated pace in order for us to cover the entire curriculum and have plenty of prep time before the AP exam. A scientific calculator is required for this class and a graphing calculator (TI-84 Silver Plus/TI-84 Silver Plus CE) is strongly encouraged.

AP CALCULUS BC

1 credit

Prerequisite: AP Calculus AB

This course is the equivalent of an introductory college-level calculus course. In this course, students study limits, continuity, differentiation, and integrated algebraic, trigonometric, and transcendental functions, as well as explore applications and derivatives and integrals, infinite series, and parametric and polar equations. Students prepare for the AP exam and further studies in science, engineering, and mathematics. Additional hours beyond classroom time are required in order to keep pace in the course.

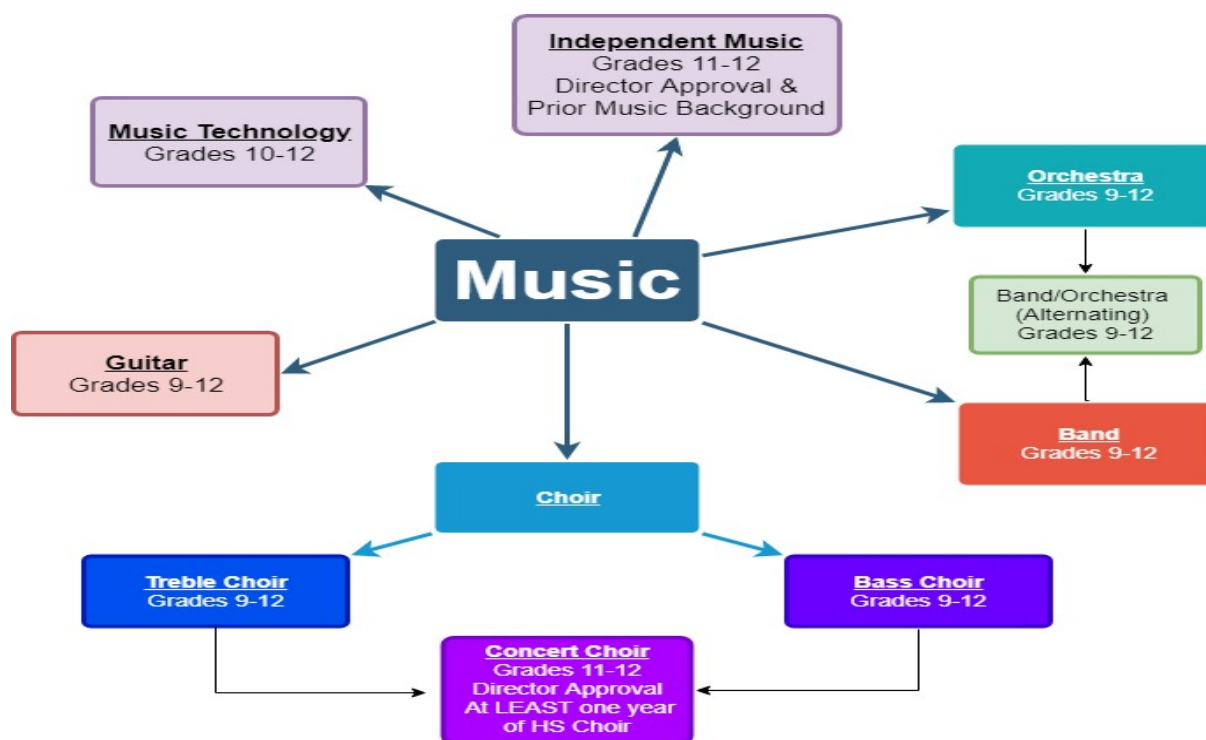
AP STATISTICS

1 credit

Prerequisite: Advanced Algebra/Trigonometry or Algebra 2 with teacher recommendation

AP Statistics is the high school equivalent of a one semester introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for change behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students use a TI-83/84 graphing calculator, Fathom, and Minitab statistical software, and Web-based java applets to investigate statistical concepts. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data.

MUSIC



INDEPENDENT MUSIC

.5 credit

Prerequisite: Grade 11, 12 and permission of the instructor

Independent music is a semester elective course offered to students in grades 11-12, with priority given to students currently enrolled in another music course. The course provides an opportunity for self-directed music study with an emphasis chosen by the student in collaboration with the instructor. Enrichment opportunities may include but are not limited to the use of instruments, voice, electronic media and/or use of computers. Prior music background and/or experience is recommended and is required by the individual instructor.

BASIC/INTERMEDIATE GUITAR

.5 credit

Prerequisites: Grade 9, 10, 11, 12 (Students are encouraged to provide their own instrument. Limited number available through the school.

The students in this class will learn the basic skills and knowledge needed to play the guitar. We will also focus on the history and characteristics of this instrument, and begin to understand its importance in many styles of music. Students of any ability level are welcome. Some of the topics covered will include: playing of simple notes and rhythms, strumming patterns, reading basic chords, tablature, basic music theory and chord progressions. Other topics that may be studied include basic songwriting, and types of guitars and equipment, finger picking, and singing and accompanying.

BAND

1 credit

Prerequisite: Grade 9, 10, 11, 12 and prior instrumental music experience

Wind and percussion students may continue their music education through participation in the LMHS Band Program, which includes concert band, marching band, pep band and numerous other performing ensembles. Students in these ensembles will experience a wide variety of musical styles. This class will involve some out of class required commitments including, but not limited to, concerts, pep band, and summer band. In addition to class, each student will take one lesson every two weeks in a small group or individually during or before the school day. In the fall, all members will be part of the L-Cat Marching Band, which will transition into concert band at the completion of the fall marching season. Band members will also have the opportunity

to be part of the Jazz Ensemble, which rehearses once a week before school, as well as other small ensembles such as brass choir, woodwind choir, and flute choir, which will perform on concerts and participate in Solo & Ensemble Festivals. Summer lessons are required for incoming freshmen and are scheduled by request for grades 10-12. There will also be a marching band camp as part of Summer Band. There is a \$10 uniform cleaning fee for this class.

ORCHESTRA

1 credit

Prerequisite: Grade 9-12 and prior instrumental music experience

Orchestra is a course available to string players; wind players interested in playing in the orchestra must be members of the school band. The orchestra performs both as a string choir and as a full orchestra ensemble. Music from a variety of musical styles is performed, from early music to contemporary songs.

Attendance at all scheduled rehearsals and concerts is required. In addition to orchestra you may participate in smaller ensembles (chamber orchestra, string quartets, trios, etc.). Lessons are required. At the discretion of the director, students may participate in Solo and Ensemble Contests.

TREBLE/BASS CHOIR

1 credit

Prerequisite: Treble: Grades 9-12 who identify as female

Bass: Grades 9-12 who identify as male

These are training choirs for those in grades 9-12. The curriculum is set up as a yearlong course. Anyone coming in mid-year will need to do some individual work to catch up to the rest of the group regarding theory and sight-reading. Students do not need to feel like they are a "good singer" to join this group. They just have to have the desire and discipline to learn. The "how to" of singing will be taught in this class. The basics of sight-reading, vocal production and signing in unison, 2-part, 3-part, and 4-part harmony will be stressed. Although this choir is considered a beginner group, high expectations will be the norm and the goal will be to sing class B level (or higher) choral pieces throughout the year.

There will be written work in music theory. Individual projects and small ensemble work will be part of the course. Music will be accompanied and sung a cappella. Students will experience a wide variety of great early to contemporary music, including songs in their original languages, spirituals, gospel, folk, and pop pieces. Choir members will be required to participate in concerts. Members will also be required to attend voice lessons and/or sectionals as scheduled by the director. At the discretion of the director, students may also participate in Solo & Ensemble Festival. Students must take this class **for at least one year** before they are eligible for CONCERT CHOIR.

CONCERT CHOIR

1 credit

Prerequisite: Grade 11, 12 AT LEAST one successful year in a high school choir, proof of singing skills and theory knowledge level, as well as director consent.

This is an advanced year-round SATB chorus and **students must sign up for both semesters**. Emphasis is placed on learning challenging quality repertoire at a faster pace. In order to do so, members must demonstrate a good foundation in vocal technique and music theory knowledge as well as have a strong group work ethic. All choirs at LMHS sing a varied repertoire in many styles and languages, from early music to contemporary literature. A cappella literature is also part of the program. Sight-reading and music theory will be stressed. Individual projects and small ensemble work will be part of this course. Choir members will be required to participate in concerts, the yearly music festivals, and all school functions where the choir is needed. Each student will also be required to attend voice lessons as scheduled by the director. At the discretion of the director, students may participate in Solo and Ensemble contests. Concert Choir members will also be required to participate in Capitol Conference Large Group Festival and select Honor Choirs. Concert uniforms are supplied for members. Students need to supply black dress shoes, however, there are a few pairs available for loan as needed. There is a \$10 uniform upkeep-cleaning fee.

MUSIC TECHNOLOGY

.5 credit

Prerequisite: Grades 10, 11, 12

This course will utilize technology to understand, create and record music as well as explore the world of live sound production. Students will learn how to use various music software, hardware, recording programs and notation programs. Other topics that will be explored include music theory and compositional techniques. Career options explored will include performing, broadcasting, producing, and audio engineering.

PHYSICAL EDUCATION

PHYSICAL EDUCATION & HEALTH EDUCATION-Grade 9

.25 credit per semester

Prerequisite: Grade 9

In the first year of physical education in high school, the students will have one semester of Health Education and one semester of Physical Education. The Health Education course is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Coursework will include

personal and community health; mental, emotional and social health; injury and prevention and safety, nutrition and physical activity; alcohol, tobacco, and other drugs; human growth and development and sexual health. Central themes are the acceptance of personal responsibility for lifelong health, respect for and promotion of the health of others, an understanding of the process of growth and development, and informed use of health-related information, products and services.

In the Physical Education course, students will participate in group and team activities to learn to work with other members of their class. The students will focus on skill development and implementing those skills into a game situation. There will be an emphasis on endurance, strength and flexibility and how each component relates to overall physical fitness. The students will participate in physical fitness testing to determine their individual levels of fitness.

PHYSICAL EDUCATION -Grade 10

.25 credit per semester

Prerequisite: Grade 10

During the second year, students participate in activities similar to those of the ninth grade. They build on the skills they learned in ninth grade and continue to apply them to game situations. They continue to learn and apply the principles of fitness in their understanding of the importance of exercise in their daily lives. They work to improve their fitness levels as they compare their scores on the Presidential Physical Fitness tests from the year before.

LIFETIME WELLNESS

.25 credit per semester

Prerequisite: Grade 11,12

This course is designed to teach the students about fitness concepts and benefits of a lifetime of physical activity. All students will be informed, independent decision makers who will make healthy lifestyle choices a lifelong habit. Units will include the following but not limited to biking, cross country skiing, golf, horse shoes, tennis and disc golf.

STRENGTH TRAINING AND CONDITIONING

.25 credit per semester

Prerequisite: Grade 11, 12

This class encourages students to understand the link between physical activity and body movement in an athletic and on athletic setting. During the class students will gain the knowledge of the five components of fitness through a training program. The class will show students that physical activity has immediate benefits of lowering levels of body fat while increasing lean body mass, increasing self-esteem and reducing stress as well as being active for life.

TEAM/INDIVIDUAL/COMPETITIVE SPORTS

.25 credit per semester

Prerequisite: Grade 11, 12

Students will experience the pleasure of participating in physical activities in a competitive setting. They will learn to recognize the strength and weaknesses of teammates and provide opportunities for everyone to enjoy success with skill limitations. A competitive spirit is essential for this class. Activities include but are not limited to the following units: soccer, lacrosse, Ultimate Frisbee, team handball, flag football, softball, volleyball and other competitive games.

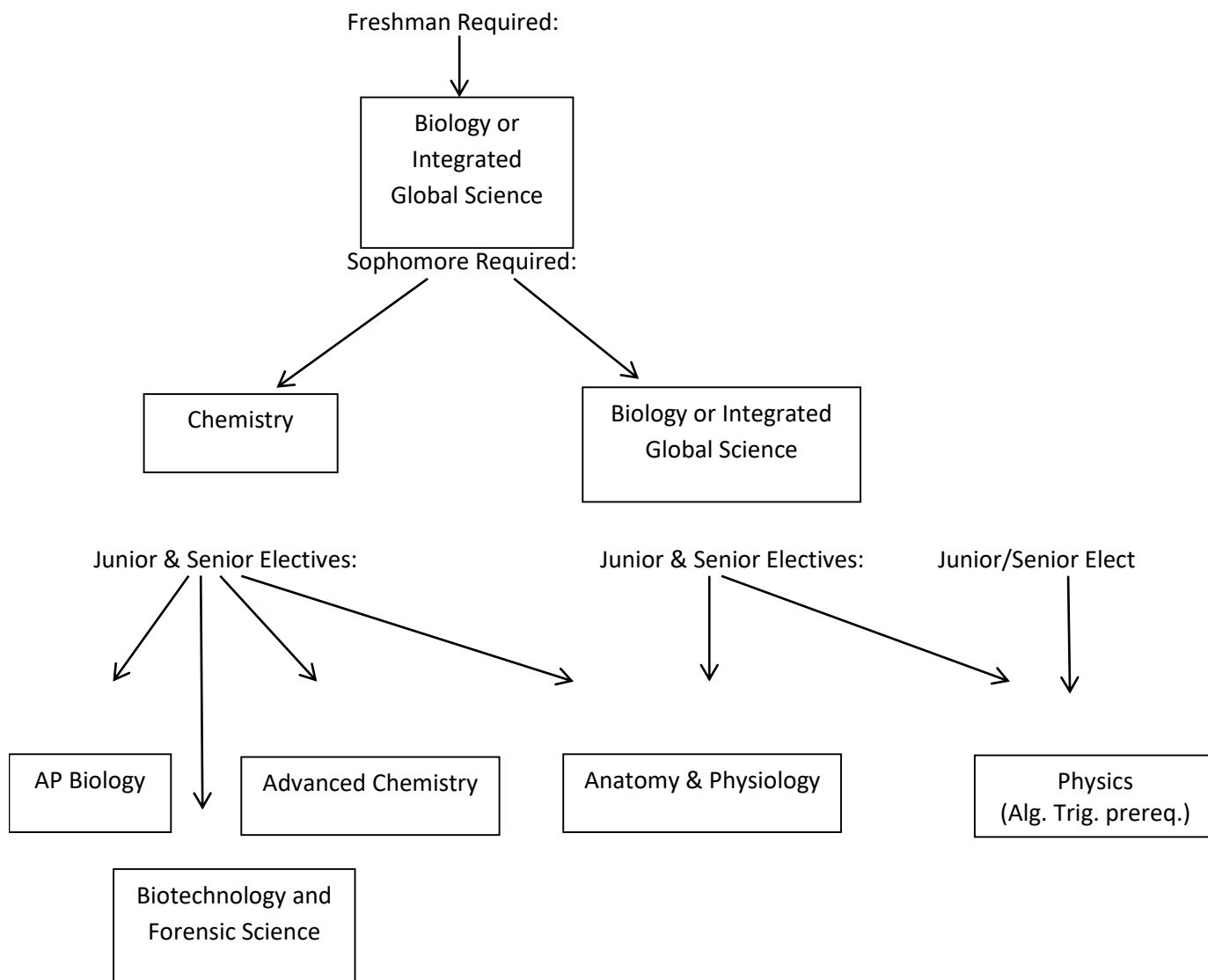
SPORTS OFFICIATING (online)

.5 credit

Prerequisite: Grades 9-12

In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, football, and tennis. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

SCIENCE



BIOLOGY

1 credit

Prerequisite: Grades 9-10

This course is designed to provide a general knowledge of life sciences. It is structured to provide the student with an insight into the major fields of modern biology, as well as a sound background in the basic biological concepts that affect the various forms of life. This course is required of all freshman students.

INTEGRATED GLOBAL SCIENCE

1 credit

Prerequisite: 9-12

This course examines the earth in the context of our solar system and the different cycles that are observed on earth, as well as exploring various environmental science topics as they relate to human interaction with the earth. Topics will include earth/moon/sun relationships, earth's cycles, and numerous topics concerning how humans have influenced our environment on earth. This course will be largely lab and discussion based.

ANATOMY & PHYSIOLOGY**1 credit**

Prerequisite: Chemistry or Integrated Global Science

This course is a study of the different systems of the human body with emphasis on anatomical identification and physiological processes of each of those systems. Units studied during this course will include an introduction to anatomy, homeostasis, histology, integumentary system, skeletal system, and muscular system. A medical research paper and accompanying project are also required. The second semester focuses on the nervous system, special senses, cardiovascular system, digestive system, and respiratory system. Each unit will incorporate a focus on selected clinical/disease applications.

CHEMISTRY**1 credit**

Prerequisite: Biology

Chemistry is one of the fundamental natural sciences and is recommended for all college-bound students. We will study the ways in which chemicals act and interact with each other including: chemical and physical changes, energy transfer, atomic structure, the periodic table, bonding, and chemical reactions. This course is largely lab based, but a significant amount of algebra is used as well. A scientific calculator is required.

ADVANCED CHEMISTRY**1 credit**

Prerequisite: Chemistry

Advanced Chemistry explores new topics from those in chemistry while also delving deeper into previously covered topics. The focus of the course is on using chemistry and mathematical skill to uncover the more complicated nuances of how the chemicals around us interact. You will be pushed to solve problems creatively and efficiently as a scientist would. It is challenging, exciting, and recommended for all students interested in continuing in science, medicine or related careers. A good work ethic and strong math skills will also be necessary.

BIOTECHNOLOGY & FORENSIC SCIENCE**.5 credit**

Prerequisite: Chemistry or Instructor consent

This course explores different branches of molecular biology as it relates to current technology. This course will incorporate many bioethical discussions and many laboratory techniques such as DNA extraction, electrophoresis, and recombinant DNA technology. Topics will include DNA replication, protein synthesis, genetic engineering/manipulation, and cloning. The Forensic Science portion of the class will include topics such as crime scene investigation, evidence collection techniques and analysis, blood typing and blood spatter, fingerprinting, DNA profiling, and culminating in a mock crime scene investigation for the final.

PHYSICS**1 credit**

Prerequisite: Grade "C" or better in Advanced Algebra/Trigonometry or consent of instructor.

Physics is a basic science recommended for college-bound students. Topics studied include motion, mechanics, energy, light and electricity. The class is math oriented with lab experimentation. A scientific calculator is required.

AP BIOLOGY**1 credit**

Prerequisite: Biology and Chemistry

This is a rigorous advanced course that is designed to be the equivalent of a college introductory biology course usually taken by biology majors during the first year of college. Topics will include biochemistry, energy transfer, cellular structure and specialization, cellular metabolism, mitosis and meiosis, genetics, ecology and evolution. Students will have the opportunity to take the AP Biology exam in the spring and potentially earn college credits. *This course requires a lot of reading. Students should expect to spend up to 1-2 hours of work outside of class between class periods. Enrolling students should be highly motivated.*

AP CHEMISTRY (online)**1 credit**

Prerequisite: Chemistry and Algebra 2 or Adv. Algebra/Trigonometry

This course builds students' understanding of the nature and reactivity of matter. After studying chemical reactions and electrochemistry, students move on to understand how the chemical and physical properties of materials can be explained by the structure and arrangements of the molecules and the forces between those molecules. Students will examine the laws of thermodynamics, molecular collisions, and the reorganization of matter in order to understand how changes in matter take place. Finally, students will explore chemical equilibria, including acid-base equilibria. Students perform hands-on labs as well as virtual labs.

LABS: Students will be issued lab kits and will perform their labs independently during the course.

The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP exam and for further study in science, health sciences, or engineering. Additional hours beyond classroom time are required in order to keep pace in the course.

AP ENVIRONMENTAL SCIENCE (online)**1 credit**

Prerequisite: Biology and Integrated Global Science

This course examines the interrelationships of the natural world. Students identify and analyze environmental problems and their effects, and evaluate the effectiveness of proposed solutions. Students learn to think like environmental scientists: making

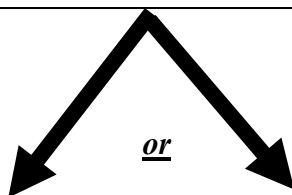
predictions based on observations, writing hypothesis, designing and completing field studies and experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of environmental science to their everyday experiences and current events and issues in science, politics, and society. Additional hours beyond classroom time are required in order to keep pace in the course.

SOCIAL SCIENCE

World History 9 (required)



US History 10 (required)



Semester I

US History 11

Semester I

**Advanced Placement
U.S. History**

Semester II

Current Issues & Politics

Semester II

**Advanced Placement
U.S. History**

**Grades 11
& 12
Electives**

**History of Economics
Psychology
Sociology
AP Gov't. & Politics (12th grade)**

WORLD HISTORY 9

1 credit

Prerequisite: Grade 9

This course will focus upon the contributions of European, African, Asian, Arab, and American civilizations. Students will utilize a variety of primary and secondary source materials to develop an understanding of the progress of human civilization and how it relates to current world events. Within this context, the development of the major world religions will be addressed.

U.S. HISTORY 10

1 credit

Prerequisite: Grade 10

This course will focus on US History from the Exploration through the 1920's. It is a continuation of 8th grade US History, emphasizing the changes that have occurred, and the responsibilities of citizenship.

U.S. HISTORY 11

.5 credit

Prerequisite: Grade 11

This U.S. History course will focus from World War II to today. It is the last semester of U.S. History. It will explain the what and why of current U.S. History.

CURRENT ISSUES AND POLITICS

.5 credit

Prerequisite: Grade 11, 12

Students who like to use the newspaper, news magazines, radio, television and the Internet to stay current about today's issues, should sign up for this course. This course will allow students to use a variety of news sources to be a part of living history. The focus of the course will be on current political issues, economics, social, scientific and military developments worldwide. In addition, investigations of the newsmakers and pop culture will be included. This is a required elective option to meet second semester grade 11 social studies requirements. This course can also be a Grade 12 elective course.

AP UNITED STATES HISTORY

1 credit

Prerequisite: Grade 11, 12

In this college-level course, students will utilize primary and secondary sources to develop an understanding of United States history. Students have the opportunity to take a comprehensive exam in the spring. Students earning high scores on this exam may earn three to six college credits. Enrolling students should be highly motivated. This is a year-long course and fulfills the Grade 11 Social Studies requirement. *This is a challenging class and students should expect 1-2 hours of homework between each class period.*

AP UNITED STATES GOVERNMENT AND POLITICS

1 credit

Prerequisite: Grade 12 (Grade 11 by consent of instructor)

In this college-level course, students will study the institutions of United States government and its constitutional underpinnings. The course will also explore the relationship between citizens, political parties, interest groups, and mass media. Students have the opportunity to take a comprehensive exam in the spring. Students earning high scores on this exam may earn three to six college credits. Enrolling students should be highly motivated. *This is a challenging class and students should expect 1-2 hours of homework between each class period.*

HISTORY OF ECONOMICS

.5 credit

Prerequisite: Grade 11, 12

This course is designed to provide the student with an understanding of economics by tracing the history and development of economic thought. Topics will include: inflation, history of taxation, development of the stock market, history of United States business and development of labor-business relations in the U.S. Topics will be related and compared with current economic events.

PSYCHOLOGY

.5 credit

Prerequisite: Grade 11, 12 (grade 12 is given priority; sections may be limited)

This course involves the study of human behavior and is intended as an introduction to the science of psychology. Topic areas include: studies of sensation and perception, memory, states of consciousness and dreams, maturation, personality and personality theory, abnormal behavior and ways it can be dealt with and experimentation in psychology.

SOCIOLOGY

.5 credit

Prerequisite: Grade 11, 12 (grade 12 is given priority; sections may be limited)

Sociology is the science that studies human society and social behavior. This course is intended as an introduction to the science of sociology. Topics covered include: culture, social interactions, socialization, adolescence and deviance/social control. Major problems in society are studied to enable the student to acquire deeper knowledge of their social environment and to assume their role as an effective citizen.

ANTHROPOLOGY (online)

.5 credit

Prerequisite: Grade 11, 12

This class is designed to look at both the social and physical areas of anthropology. Topics included will be the nature of culture, the organization of social relations, archeology, human evolution, and the relationships between values and behavior. Attention to the human use of culture in adapting to environments and to language, technology, kinship, and religion as cultural systems. Case studies of Western and non-Western peoples, historic and prehistoric cultures are also presented.

ARCHEOLOGY (online)

.5 credit

Prerequisite: Grade 11, 12

This course has all of the instructional design features of the Anthropology class and complements and supports this fascinating area of historical inquiry. Archeology is the scientific study of past human culture and behavior, from the origins of humans to the present. Archeology studies human behavior through the examination of material remains of previous human societies. These remains include the fossils (preserved bones) of humans, food remains, the ruins of buildings, and human artifacts – items such as tools, pottery, and jewelry. From their studies, archeologists attempt to reconstruct past ways of life. Archeology

is an important field of anthropology, which is the broad study of human culture and biology. Archeologists concentrate their studies on past societies and changes in those societies over extremely long periods of time.

ETHICS (online)

.5 credit

Prerequisite: Grade 11, 12

The purpose of this course is to help students develop the ability to make reasoned and ethical choices when confronted with the many complex, controversial moral dilemmas faced in today's society. Students will become acquainted with the foundations of ethical thought and theories as well as gain an insight into the process of moral development. Students will also identify typical fallacies in flawed moral arguments. Students will also be given the opportunity, both orally and in writing, to apply the skills they acquire to real life moral dilemmas.

WORLD RELIGIONS (online)

.5 credit

Prerequisite: Grade 10, 11, 12

Religion is deeply seated in the collective experiences of the human race. Each culture has intrinsic values that define it. In turn, those intrinsic values are expressed in the religions of the culture. To understand the religions, it must be viewed in the context of its creation and development in historical times. This is not to say that religion is a man-made creation; yet it reflects what is divine in each race, culture, and individual. The student will not only understand the historical and cultural basis for religions, but will also examine the value in the context of his or her own life.

CAREERS IN CRIMINAL JUSTICE (online)

1 credit

Prerequisite: Grade 10, 11, 12

Most of us have watched a sensationalized crime show but do we really know how things work behind those dreaded prison bars? Do we really understand all the many factors in our justice proceedings? The criminal justice system is a very complex field that requires many seriously dedicated people who are willing to pursue equal justice for all. The Careers in Criminal Justice course illuminates what those different career choices are and how the juvenile justice system, the correctional system, and the trial process work together to maintain social order. Find out more about what really happens when the television show ends and reality begins.

INTRODUCTION TO WOMEN'S STUDIES (online)

.5 credit

Prerequisite: Grade 10, 11, 12

Maybe you grew up watching movies with female characters like Cinderella, Belle, Snow White or Ariel. Maybe you've wondered why there are stereotypes about women being bad drivers or ignorant about sports. Maybe you want to know about feminism and the women's movement. Introduction to Women's Studies: A Personal Journey Through Film can help you answer these questions. Though it focuses on the experience of women, it's appropriate for anyone who wants to learn to critically examine films while learning about the history of the women's movement and how gender, race, and social class influence us. Women have earned their right to stand up and be recognized as equal partners and reap the benefits of their hard work. As the anonymous quote goes, "History is Herstory too."

NATIONAL SECURITY (online)

.5 credit

Prerequisite: Grade 10, 11, 12

Do you know what it takes to keep an entire nation safe? It not only requires knowledge of how to handle disasters, but it also demands a cool head and tremendous leadership abilities. In National Security, you will have the opportunity to learn about the critical elements of the job such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Put yourself in the position of the country's decisive leaders and develop your own knowledge base and skill set necessary to meet the requirements of our nation's most demanding career.

AP MACROECONOMICS (online)

.5 credit

Prerequisite: Grade 11, 12 and Algebra II or Algebra Trigonometry

Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They will also examine how individuals, institutions and influences affect people and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes and production. The equivalent of a 100-level college-level class, this course prepares students for the AP exam and for further study in business, political science and history. Additional hours beyond classroom time are required in order to keep pace in the course.

AP MICROECONOMICS (online)

.5 credit

Prerequisite: Grade 11, 12 and Algebra II or Algebra Trigonometry

This course studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They will also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets,

the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science. Additional hours beyond classroom time are required in order to keep pace in the course.

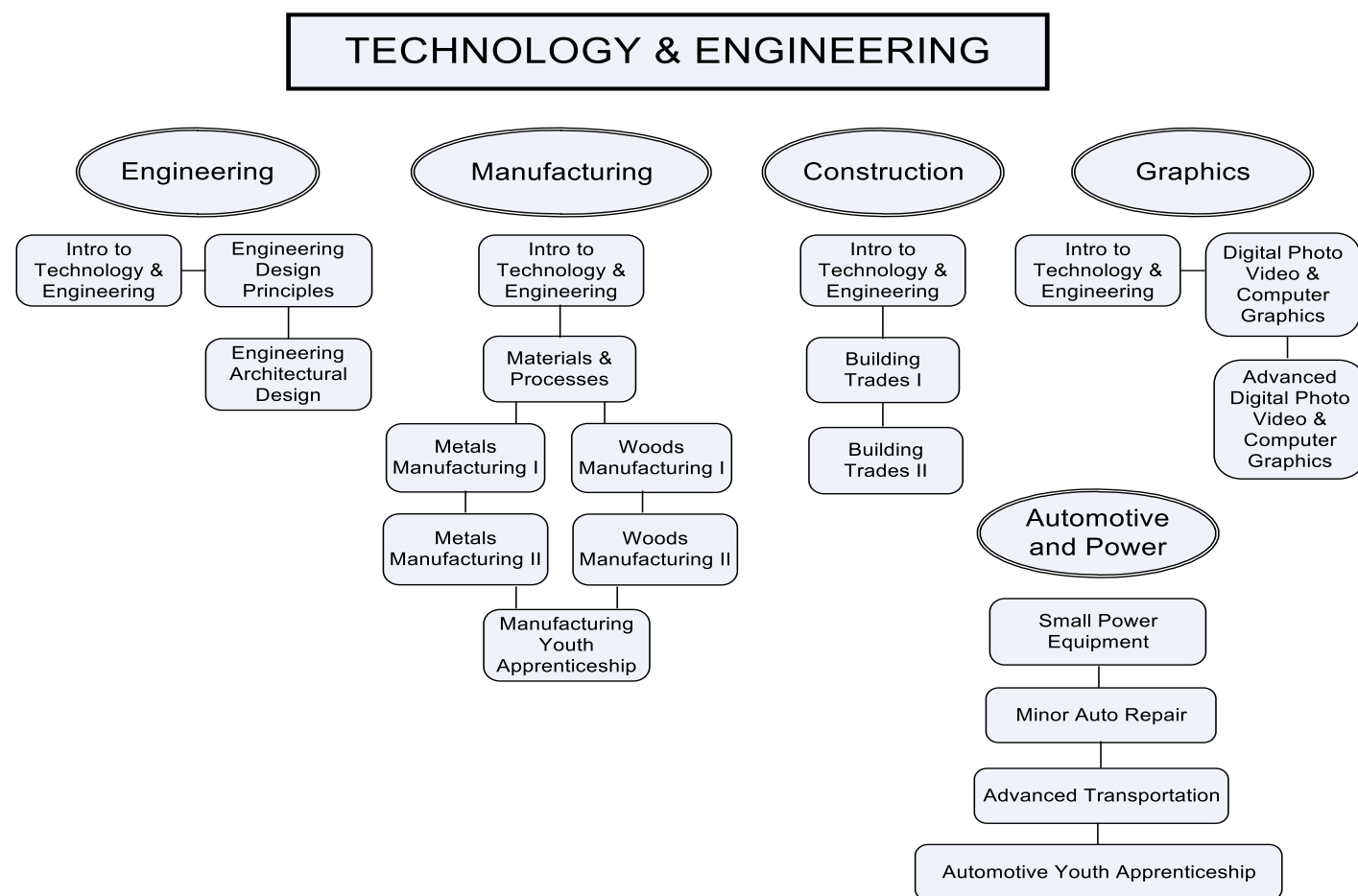
AP PSYCHOLOGY (online)

.5 credit

Prerequisite: Psychology

This course provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human intimacy and self-reflection. Students will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares students for the AP exam and for further studies in psychology and life sciences. Additional hours beyond classroom time are required in order to keep pace in the course.

TECHNOLOGY & ENGINEERING EDUCATION



Technology education classes are all electives. The purpose of the technical education program is to provide the student with a wide variety of experiences and knowledge. Knowledge which will help the student make wiser career choices and help them to better understand the technological world we live and work in. The complexity of modern technology and the speed with which it changes is creating new challenges for everyone. The course work offered should help the student meet these challenges. A fee will be assessed for materials used.

INTRODUCTION TO TECHNOLOGY AND ENGINEERING (ITE)

.5 credit

Prerequisite: Grade 9,10,11,12

In this class, students use the STEM Academy lessons to become competent, capable citizens in a technology-dependent society through comprehensive student assessments, including: traditional tests and quizzes, project-based learning, presentations, and portfolios. Students will work independently and in groups to solve, create, and accomplish completion of tasks and projects.

ENGINEERING DESIGN PRINCIPLES (EDP)

.5 credit

Prerequisite: Introduction to Technology and Engineering or consent of instructor

Engineering Design Principles is a course for students who feel they might pursue a career in **engineering, manufacturing** or would like to learn more about it. In EDP, the student spends the semester learning the mechanical drafting system including the basics of Pro-Desktop. Students also do a 3-D solid modeling project using Pro-Desktop. This is an excellent course for anyone planning on an engineering career.

ENGINEERING ARCHITECTURAL DESIGN

.5 credit

Prerequisite: Introduction to Technology and Engineering or consent of instructor

This course has an emphasis on architectural design. Students create a residential floor plan including elevation drawings. Engineering Architectural Design is an excellent course for anyone planning on an architectural or construction career.

BUILDING TRADES I

.5 credit

Prerequisite: Introduction to Technology and Engineering (ITE)

Building Trades I is designed for students interested in learning more about the field of residential construction. Students spend time in the construction lab creating a scaled corner section of a residential house. Topics discussed include:

- Foundations
- Floor framing
- Wall framing
- Roof framing
- Roofing
- Exterior finishes

Building Trades I is an excellent course for anyone planning on a career in construction. Safety glasses are required daily and are to be provided by the student.

BUILDING TRADES II

.5 credit

Prerequisite: Building Trades I

This course is a continuation of Building Trades I with more hands on learning in the first nine weeks in the areas of

- Heating and cooling
- Plumbing
- Electrical
- Insulation
- Drywall
- Finish Carpentry

The second nine weeks will be spent in actual construction of a building. **Safety glasses are required daily and are to be provided by the student.**

MATERIALS & PROCESSES

.5 credit

Prerequisite: Gr. 9-12

Students interested in pursuing careers in engineering, architecture, manufacturing management, sales or a technical trade should take this course. This course is an action-based study of the modern materials and processes associated with production in modern industry. Class work includes learning about the properties of different materials, and where and when to properly use them. Students will produce products through hands-on experience

learning basic processes used in the manufacture of plastic, wood, composite and metal products. Students will do injection mold, weld, and machine metal. **Safety glasses are required daily and are to be provided by the student.**

METALS MANUFACTURING I

.5 credit

Prerequisite: Materials & Processes

Students interested in pursuing careers in engineering, manufacturing management, or a technical trade should take this course. In this course students study the basic skills and processes used in the metal-working industry. Students gain hands-on experience on the following equipment:

- Lathe
- Milling Machine
- Grinder

- Stick Welder
- Mig Welder
- Oxy-fuel Welder
- Resistance Welder
- Sheet Metal Fabrication
- CNC Plasma Cutter

Considerable emphasis is placed on the reading, use, and care of the basic precision measuring instruments. **Safety glasses are required daily and are to be provided by the student.** Students pay for material used in required projects.

METALS MANUFACTURING II

.5 credit

Prerequisite: Metals Manufacturing I

Students in this course are provided the opportunity to broaden their general knowledge and skills in the metals manufacturing field. Students practice the skills learned in Metals Manufacturing I with individualized instruction and hands-on projects. Mastercam software is used for the design and programming of CNC machines. Students must display an increasing degree of knowledge and skills in metals manufacturing work by receiving passing grades on assigned and chosen lab activities and projects. This class will help prepare students for a career in metals manufacturing field. **Safety glasses are required daily and are to be provided by the student.** Students pay for material used in required projects.

MANUFACTURING YOUTH APPRENTICESHIP

1/2 credit per 180 hours of work experience senior year

Prerequisite: Senior standing, identified manufacturing career major.

If the student is serious about a career in the manufacturing industry then this youth apprenticeship is for them. The program involves the student being enrolled in Metals Manufacturing I and II. The program involves 450 hours of paid work experience over the year with a mentor/trainer. Selection for this program is done through an interview process by the coordinator, instructor and employer.

WOOD MANUFACTURING I

.5 credit

Prerequisite: Materials & Processes

Students will be introduced to the wood products industry with a hands-on approach. Class work includes development of part drawings, bill of materials, and precise measurement. Student projects are designed to teach proper use of the table saw, miter saw, jointer, planer and band saw along with an assortment of hand tools. Students also program basic operations on the CNC router to demonstrate technological advances in the wood products industry. **Safety glasses are required daily and are to be provided by the student.** Students pay for materials used in required projects.

WOOD MANUFACTURING II

.5 credit

Prerequisite: Grade 11, 12 and Wood Manufacturing I

This course is a continuation of Wood Manufacturing I. More emphasis is placed on design theory and practice, estimating, mass production, crafts, marketing, entrepreneurship and individualized projects for self, school or others. Coursework includes learning how to safely and productively utilize modern production and cabinetmaking tools, materials and techniques. This is in an effort to create awareness of the industry and possible future employment opportunities. Students also program basic operations on the CNC router to demonstrate technological advances in the wood products industry. Students develop a bill of material for their projects. **Safety glasses are required daily and are to be provided by the student.** Students will pay for material used in required projects.

SMALL POWER EQUIPMENT

.5 credit

Prerequisite: Grade 10, 11, 12

This course will emphasize small engine fundamentals, including 2-stroke and 4-stroke engines. Student will have the opportunity to do research and development with different designs related to small engines. Troubleshooting of snowmobiles, ATV's, lawnmowers and chainsaws will also be addressed. Students will also be able to apply different theories to gain the most performance and energy efficiency. **Safety glasses are required daily and are to be provided by the student.** Students will pay for material used in required projects.

AUTOMOTIVE TECHNOLOGY – Jefferson County STC

.5, 1 credit

Prerequisite: Grade 11, 12; identified auto technician career major

This course conforms to ASE (Auto Service Excellence) scope and requirements and is for the student who wants to be an auto technician. The first year classroom includes introduction to Safety, Brake, Suspension & Steering, Electrical and Engine Performance. Theory and proper use of hand tools, electrical test equipment and fasteners are emphasized. ASE certification and testing will be a part of this course. This course is a full year and is held at Jefferson High School on Monday evenings from 6-9pm. An application and interview to this program will be required. Application materials can be obtained from Mrs. Wollin and need to be returned by the date specified to be considered for this opportunity. If you are a junior and complete the course

with a C or better, you will then have the option of continuing your training your senior year at the Madison College Truax campus in the Automotive program. This course is two night a week for three hours each session. With both courses, you will be not only attaining high school credit, but also credit towards the Madison College Automotive program. Credit will be based on your course work, on the job experience and ASE Certification testing.

AUTOMOTIVE TECHNOLOGY YOUTH APPRENTICESHIP Level 1 and Level 2

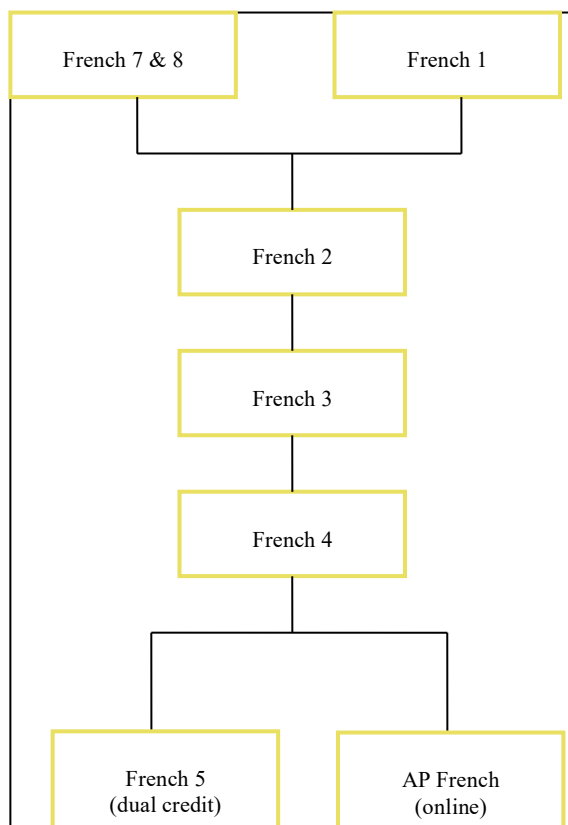
**.5 credit for classes junior/senior year; .5 credit for 180
Hours of work experience junior/senior year**

Prerequisite: Grade 11, identified automotive career major

If you are serious about a career in the automotive industry, then this youth apprenticeship is for you. The program involves being enrolled in the Auto Technology course either the junior or senior year. If you are enrolled in the above courses in the junior year, the senior year is enrollment in the Advanced Automotive Technology program and being involved in the youth apprenticeship Level 2 program. The program involves 450 yours of paid work experience for a Level 1 program and 900 hours of paid work experience for a Level 2 program with a mentor/trainer. Selection for this program is done through an interview process by the coordinator, instructor and employer. If interested, you must contact Mrs. Wollin for an application and to be initially enrolled.

WORLD LANGUAGE

The Lake Mills High School world language curriculum follows the Wisconsin Standards for World Languages, which embeds the goal areas of Cultures, Connections, Comparisons and Communities through Communication. Theses standards are summarized as *Interpretive Communication*, *Interpersonal Communication*, *Presentational Communication*, *Intercultural Communication* and *Global Competence and Community Engagement*. These five standards are based on proficiency bands: *Novice*, *Intermediate* and *Advanced*.



FRENCH 1: Novice-Low/Mid to Novice-High Proficiency**1 credit**

Prerequisite: Open to any grade level

Novice level learners can communicate using memorized materials in the form of words/characters, phrases or simple sentences. Students are expected to speak French as much as possible in class.

FRENCH 2: Novice-High to Intermediate-Low Proficiency**1 credit**Prerequisite: French 1 or 7th & 8th grade French and/or consent of instructor

Novice level learners can communicate using memorized materials in the form of words/characters, phrases or simple sentences. Students are expected to speak French in class.

FRENCH 3: Intermediate-Low to Intermediate-Mid Proficiency**1 credit**

Prerequisite: French 2 and/or consent of instructor

Intermediate learners can create with language, ask and answer simple questions on familiar topics and handle a simple situation or transaction. Students are expected to speak French in class.

FRENCH 4: Intermediate-Mid to Intermediate-High Proficiency**1 credit**

Prerequisite: French 3 and/or consent of instructor

Intermediate learners can create with language, ask and answer simple questions on familiar topics and handle a simple situation or transaction. This course is the equivalent of an AP course in rigor. Students are expected to speak French in class.

FRENCH 5: Intermediate-Mid to Intermediate-High Proficiency**1 credit**

Prerequisite: French 4 and/or consent of instructor

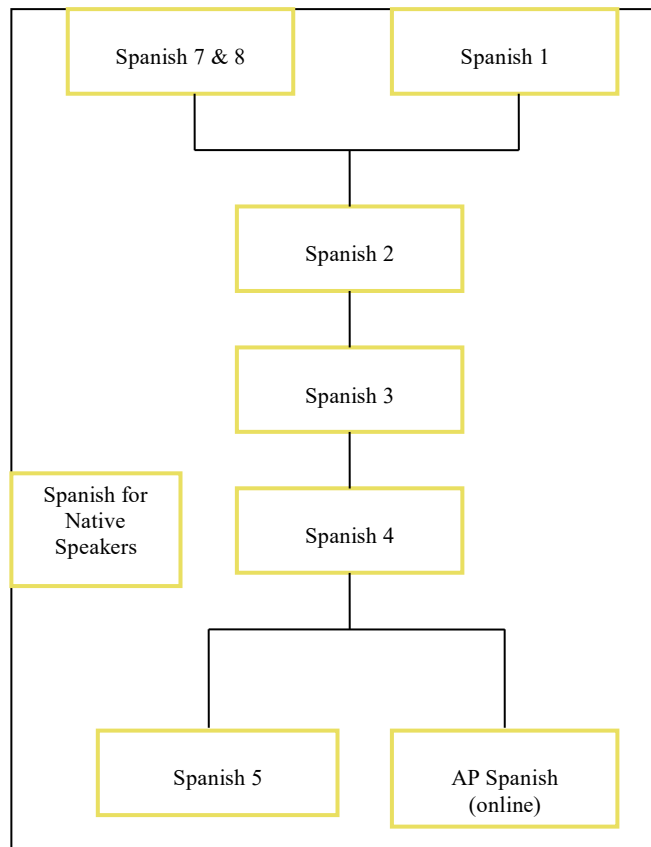
Intermediate learners can create with language, ask and answer simple questions on familiar topics and handle a simple situation or transaction. This course is the equivalent of an AP course in rigor. Students are expected to speak French in class.

In addition, this course is part of the College Credit in High School (CCIHS) program through UW-Green Bay in which students can earn university credit at a reduced tuition (more info. At www.uwgb.edu/ccihhs). This credit transfers easily to other UW System schools. Students who successfully complete this course with a "B" or better will be eligible to earn up to 11 retro credits through UW-Green Bay applicable in all UW System schools upon enrollment in this course through the university. Other universities may accept the retro credits as well. Please check with your individual university.

AP FRENCH LANGUAGE AND CULTURE (online)**1 credit**

Prerequisite: French 3 or 4

The AP French Language and Culture course is an advanced language course in which students are directly prepared for the AP exam. It uses as its foundation the three modes of communication: interpersonal, interpretive, and presentational. The course is conducted almost exclusively in French. The course is based on the six themes required by the College Board: 1) global challenges, 2) science and technology, 3) contemporary life 4) personal and public identities, 5) families and communities, and 6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide variety of authentic French language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using French, gain knowledge and understanding of the cultures of the Francophone world, use French to connect other disciplines and expand knowledge in a wide variety of contexts, develop insight into the nature of the French language and its cultures, and use French to participate in communities at home and around the world. The intensity, quality, and amount of course material can be compared to that of a third-year college course. Additional hours beyond classroom time are required in order to keep pace in the course.



SPANISH 1: Novice-Low/Mid to Novice -High Proficiency

1 credit

Prerequisite: Grade 9, 10, 11, 12; "C" average in English recommended

Spanish 1 is an introductory course for students with little or no background in the language and who are taking it for the first time. *This course is not appropriate for students who have completed 7th & 8th grade Spanish with an average of "C" or better.* Through hands-on activities, students will learn the four basic language skills of listening, speaking, reading and writing. Songs, presentations, skits, group activities and online work will allow students to express themselves in a variety of everyday situations. The vocabulary has an emphasis on real-life applications including: identity, pastimes, school, families and profession. Classes are conducted primarily (-90 %) in Spanish. Students are expected to speak Spanish as much as possible in class.

SPANISH 2: Novice-High to Intermediate-Low Proficiency

1 credit

Prerequisite: "C" average in Spanish 1 or 7th & 8th grade Spanish and/or consent of instructor

This course will reinforce basic language skills in action. Students will learn to express themselves in a more sophisticated way, creating complex sentences in the present and past tenses and through the usage of authentic Spanish materials. Songs, presentations, skits, group activities and online course work will allow students to express themselves in a variety of everyday situations based on shopping, home, health and communities. Written and oral communication will be emphasized with classes conducted primarily in Spanish. Students are expected to speak Spanish the majority of the class and complete daily work. Work time outside of class will be necessary to prepare for summative assessments.

SPANISH 3: Intermediate-Low to Intermediate-Mid Proficiency

1 credit

Prerequisite: Spanish 2 – A "C" or better in Spanish 2 is recommended.

Students continue to develop their reading, writing, and speaking skills by building on what they learned in Spanish 1 and 2. Conversation practice including dialogues and speeches will be an important part of the course. Themes include hobbies, childhood, neighborhood, professions and nature, while grammar topics include the future and subjunctive tenses. Reading comprehension is emphasized through the use of short stories and other selections written in Spanish. Students will continue their study of Spanish culture. Written and oral communication will be emphasized with classes conducted primarily in Spanish. Students are expected to speak Spanish as much as possible in class and complete daily work. Work time outside of class will be necessary to prepare for summative assessments.

SPANISH 4: Intermediate-Mid to Intermediate-High Proficiency**1 credit**

Prerequisite: Spanish 3

Students review grammar and vocabulary learned in Spanish 1, 2, and 3 as well as study more advanced grammatical structures. The subjunctive tense is mastered at this level. New themes and vocabulary are introduced. Emphasis is placed on the development of reading, writing, speaking and listening skills through dialogues, short literary selections and compositions. Students have an opportunity to do more in-depth cultural study. Students are expected to speak predominantly in Spanish and complete daily work. Work time outside of class will be necessary to complete daily work and to prepare for summative assessments.

SPANISH 5: Intermediate-Mid to Intermediate-High Proficiency**1 credit**

Prerequisite: Spanish 4- A "C" or better in Spanish 4 is recommended.

This class includes a comprehensive review of all grammatical structures. Emphasis is placed upon comprehension of literature through study of short stories, poetry and novels as well as composition skills. Students have an opportunity to continue in-depth study of Spanish culture. Students are expected to speak Spanish the vast majority of class. Work time outside of class will be necessary to complete daily work and to prepare for summative assessments.

SPANISH FOR NATIVE SPEAKERS**1 credit**

Pre-requisite: Grades 9, 10, 11 or 12 and native or near-native Spanish fluency

This course is for native Spanish-speaking students to improve their reading, writing, and grammar skills in the Spanish language. The focus will be on correct spelling, accent placement, and grammar constructions to assist native Spanish speakers in increasing their bilingual skills to ready themselves for their future careers and college experiences. Students will also be improving their reading skills through the use of authentic texts in the Spanish language. Work time outside of class will be necessary to complete daily work and to prepare for summative assessments.

AP SPANISH LANGUAGE AND CULTURE (online)**1 credit**

Prerequisite: Grade 12 and Spanish 4 or equivalent native fluency

The AP Spanish Language and Culture course is an advanced language course in which students are directly prepared for the AP exam. It uses as its foundation the three modes of communication: interpersonal, interpretive, and presentational. The course is conducted almost exclusively in Spanish. The course is based on the six themes required by the College Board: 1) global challenges, 2) science and technology, 3) contemporary life 4) personal and public identities, 5) families and communities, and 6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide variety of authentic Spanish language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using Spanish, gain knowledge and understanding of the cultures of the Spanish speaking areas of the world, use Spanish to connect other disciplines and expand knowledge in a wide variety of contexts, develop insight into the nature of the Spanish language and its cultures, and use Spanish to participate in communities at home and around the world. The intensity, quality, and amount of course material can be compared to that of a third year college course. Additional hours beyond classroom time are required in order to keep pace in the course.

GERMAN 1 (online)**1 credit**

Prerequisite: Grade 10, 11, 12; C or better in Level 1 French or Spanish

Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices that reinforce vocabulary and grammar.

GERMAN 2 (online)**1 credit**

Prerequisite: German 1

Students will take their mastery to the next level in the four key areas of foreign language study: listening, speaking, reading, and writing. Each unit continues to present a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be more actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (American Council on the Teaching of Foreign Lang).

