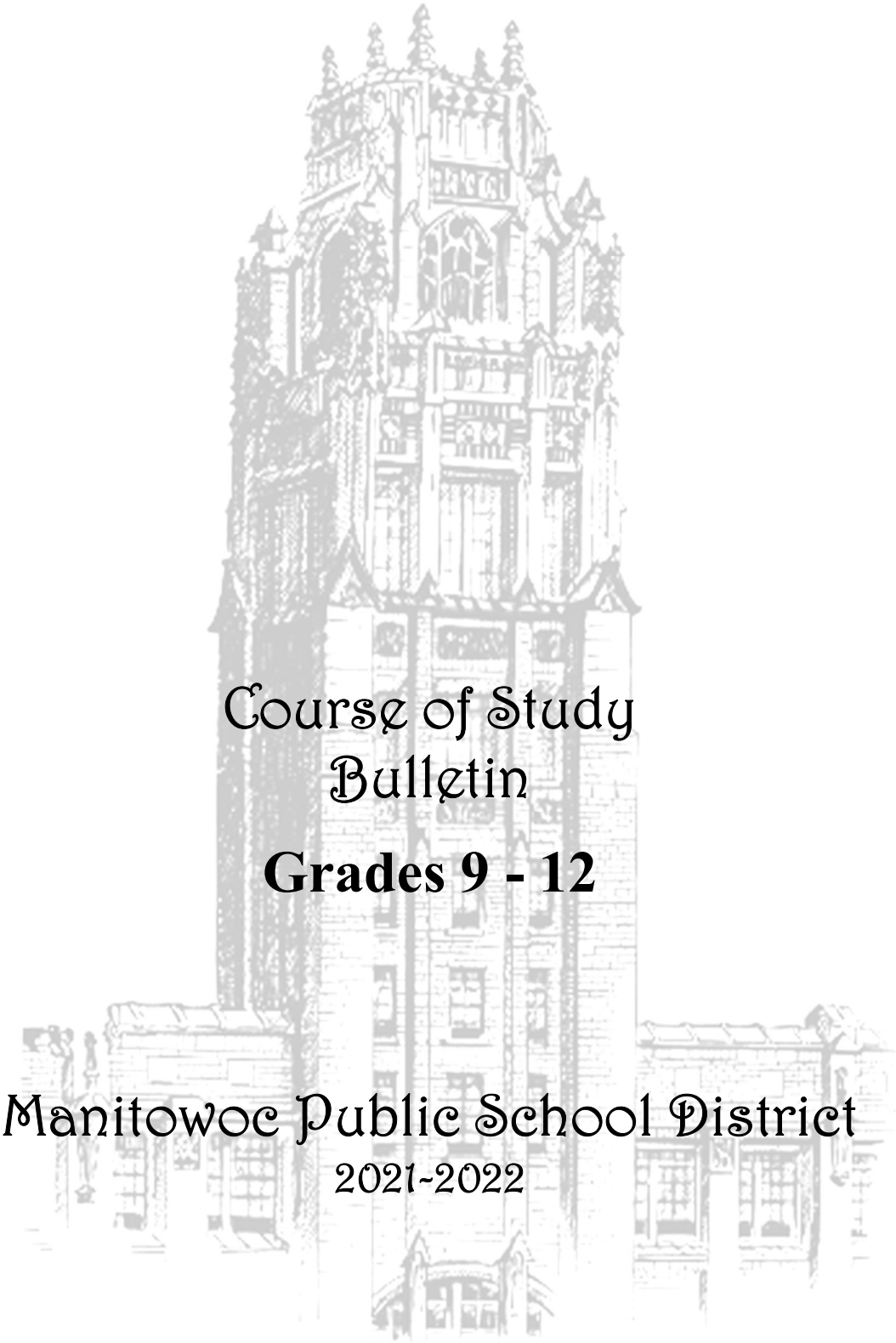

Course of Study Bulletin

Grades 9 - 12

Manitowoc Public School District

2021-2022

Graduation Requirements

English	**4.0 Credits**
• **English 9 or Accel English 9**	
• **English 10 or Accel English 10**	
• **Must complete 1 credit of English Language & 1 credit of Literature between grades 11 and 12 See English Section for more specifics (Starting with Class of 2022)**	
Mathematics	**3.0 Credits**
Science	**3.0 Credits**
• **Physical**	**1.0 Credit**
• **Life**	**1.0 Credit**
• **Elective Science**	**1.0 Credit**
Social Studies	**3.0 Credits**
• **U.S. History**	**1.0 Credit**
• **World History/Global Perspectives**	**1.0 Credit**
• **Civics**	**0.5 Credit**
• **Social Studies Elective**	**0.5 Credit**
Physical Education	**1.5 Credits**
Health	**0.5 Credit**
Financial Literacy (choose one)	**0.5 Credit**
• **On Your Own**	
• **Personal Finance**	
• **Economics**	
Electives	**8.5 Credits**
Total Credits	**24.0 Credits**

All students need to be enrolled in six classes each semester.

. To get a high school diploma from Lincoln:

- Students must earn a total of **24 credits**.
- Students must complete **a total of 20 hours of community service work** during their four years of high school. If you choose, this may be done during the summer before ninth grade.
- Students must achieve a satisfactory score on all subject area tests of the **9th or 10th grade ACT Aspire test, 11th grade ACT test** OR receive two semester grades of C or higher in each subject sometime during grades 9-12.

Community Service Project Requirement

All graduates from Lincoln High School will be required to successfully complete a community service project. The service project requires a student to devote a minimum of twenty (20) hours of service to community organizations, churches, or governmental agencies that normally depend upon volunteers. An approved, completed project verification form must be on file before graduation. **NOTE**: Those students enrolled in the International Baccalaureate Diploma Program will have their service project incorporated into their curriculum. Only hours served after the sophomore year will be counted for IB.

What are the Common Core State Standards?

The English and Math sections of this year's course bulletin reflect the grade level learning goals for Math and English Language Arts defined by the Common Core State Standards (CCSS).

The Common Core State Standards, adopted by the state of Wisconsin and 45 other states, provide a consistent, clear understanding of what students are expected to learn, so teachers and parents know what they need for success throughout school in preparation for college and careers. These Standards were created by a joint initiative of the Council of Chief State School Officers and the National Governors Association Center for Best Practices, with the support of Achieve, ACT and College Board. Although the standards have been adopted by nearly every state, they are titled "state standards" because they were created by state officials, not the federal government. The Standards are available online at **http://www.corestandards.org**

High standards are not the only things needed for student success. Standards provide an important first step - a clear roadmap for learning for teachers, parents, and students. The adoption of the CCSS means that students will be better prepared in today's global economy to meet the demands of college and/or the workplace of the 21st century.

Information and Telephone Assistance Available

Any student or parent may contact one of the counselors for assistance in planning course selections.

Lincoln High School
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Table of Contents

Art……. Page 14

Career and Technical Education……..... Page 19
- Business and Information Technology Education Page 20
- Family and Consumer Sciences Page 24
- Technology and Engineering Education Page 28

School to Work…… Page 33
- Work Experience
- Youth Apprenticeship

English……. Page 36

World Language……. Page 46

International Baccalaureate……. Page 54

Mathematics…… Page 63

Work Based Learning ……..…… Page 68

Music……... Page 69

Physical Education - Health…… Page 71

Science……... Page 75

Social Studies…… Page 83

Theatre…….. Page 90

Recommendations for College Bound Students

Although college entrance requirements vary a great deal, a sound academic background is very important in preparing to do college-level work. Even though you might be admitted to college without some of the courses recommended, you will find it much more difficult without the proper background in these areas. It is the student's responsibility to become familiar with specific college entrance requirements and to plan a high school program, with the assistance of their parents, teachers, and counselors, to meet the various entrance requirements.

General Recommendations

English - 4 years

Mathematics - 3 years: one year each of *Algebra, Geometry, Algebra 2.* A fourth year is recommended which could include Pre-Calculus, Statistics, IB Math Applications & Approaches or IB Math Analysis & Interpretations.

Science - 3 years: one year each of life science, chemistry, and one other elective

Social Studies - 3 years to include 1 credit – American History, 1 credit – World History/Global Perspectives, .5 credit – Civics, .5 credit – Social Studies Elective

World Language - 2 years: one language.

Computer Literacy - Students should be knowledgeable in using a word processing package.

Electives - In addition to the subjects recommended above, you are advised to choose electives from the fields of art, music, business education, family and consumer education, and technology education for a well-rounded program.

Advanced Placement Courses - AP courses are college-level courses taught in high school following a special curriculum. If the student passes an exam given in early May, many colleges grant college credit. AP courses are offered in the following subjects:

AP Biology	AP Calculus AB
AP Chemistry	AP English Literature and Composition
AP Environmental Science	AP Human Geography
AP Psychology	AP Statistics
AP U.S. Government and Politics	AP U.S. History

IB Courses - are college level courses taught in high school. These courses may be taken individually as certificate courses, or developed into a full course of study and earning of the IB Diploma. Assessments are in May, and many colleges grant credit for IB courses.

IB Biology	IB Business Management	IB Ecosystems & Societies
IB English Literature	IB Film Studies	IB French
IB German	IB History of the Modern World	IB History of Europe
IB Math: Analysis & Approaches	IB Math: App & Interpretation	IB Music
IB Physics	IB Psychology	IB Spanish
IB Theatre Arts	IB Visual Arts	

Project Lead the Way (PLTW)
Project Lead the Way (PLTW) is a national non-profit organization established to help schools give students the knowledge they need to excel in high-tech fields. Studies of PLTW's curriculum have proven that PLTW students become the kind of prepared, competent, high-tech employees U.S. industry needs to stay competitive in the global market. With its strong partnership concept, PLTW leverages the collective knowledge and efforts of secondary schools, colleges and universities, and industry to give students rigorous, relevant, reality based knowledge to better prepare them for college. Research shows, and continues to confirm, that students introduced to engineering principles, concepts, and real-world problems in high school are better prepared for college engineering programs - and more likely to be successful in postsecondary education. Furthermore, the PLTW program addresses national standards in Math, Science, Language Arts, and Technology as well as offering student's COLLEGE CREDIT at articulated institutions such as MSOE (Milwaukee School of Engineering) and UW Oshkosh.

- ***Computer Science Principles***
  - Using Python® as a primary tool, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

- ***Intro to Engineering Design Part 1 and 2 (IED)***
  Students dig deep into the engineering design process, applying math, science, and engineering
  - standards to hands-on projects like designing a new toy or improving an existing product.

- ***Principles of Engineering (POE)***
  - Students explore a broad range of engineering topics including mechanisms, strength of structure and materials, and automation, and then they apply what they know to take on challenges like designing a self-powered car.

- ***Computer Integrated Manufacturing (CIM)***
  - Students discover and explore manufacturing processes, product design, robotics, and automation and then they apply what they have learned to design solutions for real-world manufacturing problems.

International Baccalaureate (IB) and Advanced Placement (AP)

Both AP and IB include

- Rigorous programs devoted to educational excellence
- High performance standards for students and teachers
- Certified and specially trained instructors dedicated to the IB and AP core values
- Attractive options for highly motivated students who wish to excel academically and attend the most selective colleges and universities
- AP and IB both promote open access to students who may excel in only one or two academic disciplines.
- Opportunities for students to explore major universities throughout the United States due to retroactive and articulated credits

Attributes of IB:

- IB curriculum emphasizes both breadth and depth of knowledge; courses direct students to ask questions, set challenging goals, and develop the skills, attributes, and persistence to achieve those goals.
- The full IB Diploma curriculum begins junior year and focuses on each student as a whole person, addressing not only cognitive development, but also social, emotional, and physical well-being.
- IB courses span either one or two years, can be taken individually in areas of interest as well as part of the full program, are open enrollment, emphasize learning how to learn, and teach students to value learning as an essential, integral part of their everyday lives.
- IB Diploma candidates and IB course takers are assessed by their teachers through formative assessments that provide ongoing feed-back, as well as varied summative assessments including essays, investigations, projects, and presentations. These are internationally benchmarked and are criterion referenced, this means students are measured against a set of internationally agreed upon learning outcomes.
- IB assessments are both nationally and internationally trusted by higher education institutions and IB has attracted the attention of national and international educators and educational policy makers as a positive way to improve the quality of education.
- Community service and becoming a prepared global citizen are emphasized.
- Full diploma students frequently enter university at sophomore status.

***Students may choose to take individual IB classes or complete the full diploma.*

Attributes of AP:

- Students may take as many or as few AP courses in areas of interest
- AP exams are norm referenced, measuring student performance against other exam takers and results are trusted by higher education institutions.
- A positive reputation for attracting attention of national educators and educational policy makers as ways to improve the quality of education.
- AP exams are in general multiple choice with some written narrative components.
- AP classes span a single year with the exam for the course work in May.

*** Students may opt to take both AP and IB classes.*

Earn College Credit in High School

WHAT IS ADVANCED STANDING?

Advanced standing credit is when a student takes one of the high school courses listed below and successfully completes the course with a B or better for the semester. The student will be granted advanced standing credit for the technical college course upon successful enrollment at Wisconsin Technical College. Advanced Standing is awarded at the discretion of the college.

Advanced Standing Agreements

Lincoln High School Course	Credits	LTC Course
Algebra 2	4	Intermediate Algebra
Anatomy and Physiology	4	General Anatomy & Physiology
AP Psychology	3	Intro to Psychology
Chemistry	4	General Chemistry
Child Development	3	ECE: Child Development
Health Occupations 1	2	Culture of Healthcare
Introduction to Technical Reading & Writing	3	Intro to College Writing
Medical Terminology	3	Medical Terminology
Microbiology	4	Microbiology
Physics	4	General Physics
Programming & Video Game Design	1	Programming 1
Public Speaking	3	Speech
Microsoft Office Essentials	4	Word 2010 Lev. 1-3 and MS Excel Lev. 1
Sports & Entertainment Marketing	3	Principles of Marketing
Welding Processes AND Metal Fabrication	1	Welding Introduction
Written Communication	3	Written Communication
Oral/Interpersonal Communication	3	Oral/Interpersonal Communication

WHAT IS TRANSCRIPTED CREDIT?

Transcripted credit allows students who earns a C or better for the semester in select Lincoln classes to earn college credit. Transcripted Credit courses are 100% college curriculum, competencies, and rigor. The student receives LTC college credit and high school credit. A final grade is reported on both the student's high school transcript and LTC transcript. There is no cost associated with this course. **Transcripted credit is awarded at the discretion of the college.**

Transcripted Credit Agreements

Lincoln High School Course	Credits	LTC Course
Accounting 1	4	Accounting 1
Accounting 2	4	Accounting 2
Accounting 3 (Independent Study)	4	Accounting Cost 1
Introduction to Sociology	3	Introduction to Sociology

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UW-GREEN BAY COLLEGE CREDIT IN HIGH SCHOOL (CCIHS)

The UW-Green Bay College Credit in High School (CCIHS) program is a concurrent enrollment program where **students can earn both high school AND college credit for their class.** In other words, because it is a dual credit program, not only do students earn credit on their Lincoln High School transcript, but they can also earn credits on a UW-Green Bay transcript. **These college credits can often be transferred to other UW-System schools and many out of state or private colleges and universities (dependent upon their credit transfer policies).**

Courses are taught by UW-Green Bay approved high school instructors and are aligned to the content, learning outcomes and rigor of UW-Green Bay classes. The courses for dual credit that are taught at Lincoln High School, by LHS instructors, are:

Lincoln High School courses	UWGB course equivalent & credits
IB French / Adv. French Yr. 1 #1321	**French 202 - 3 credits** * 11 additional credits (retroactive credits) can be earned by receiving a B or better in the year-long LHS course
IB French / Adv. French Yr. 2, #1322	**French 202 - 3 credits** If a student did not take IB French / Adv. French Yr. 1 for college credit, the student may choose to take IB French / Adv. French Yr. 2 for French 202 (for 3 credits and up to 11 retroactive credits). OR **French 222 - 3 credits** Students who completed IB French / Adv. French Yr. 1 and earned college credit for French 202, can register for French 222 for their IB French / Adv. French Yr. 2 year-long course.
IB Spanish / Adv. Spanish Yr. 1 #1363	**Spanish 202 - 3 credits** * 11 additional credits (retroactive credits) can be earned by receiving a B or better in the year-long LHS course
IB Spanish / Adv. Spanish Yr. 2 #1364	**Spanish 202 - 3 credits** If a student did not take IB Spanish / Adv. Spanish Yr. 1 for college credit, the student may choose to take IB Spanish / Adv. Spanish Yr. 2 for Spanish 202 (for 3 credits and up to 11 retroactive credits). OR **Spanish 222 - 3 credits** Students who completed IB Spanish / Adv. Spanish Yr. 1 and earned college credit for Spanish 202, can register for Spanish 222 for their IB Spanish / Adv. Spanish Yr. 2 year-long course.

What are retroactive credits?

- Retroactive credits are credits that are awarded for world language classes. If you are successful at the 202 level of your world language class, you will have demonstrated the skills and knowledge for college 101, 102 and 201 level classes.
- Retroactive credits do not have a grade and therefore, do not affect your grade point average. (However, for the 202 level course you will earn a grade on your UWGB transcript that will be a part of your college grade point average.)
- You do not pay for retroactive credits – you only pay for the 202 level CCIHS course in which you enroll.

Complete with a B or Better	**French 202**	**Spanish 202**
Receive 11 retroactive credits for:	French 101 – 4 credits French 102 – 4 credits French 201 – 3 credits	Spanish 101 – 4 credits Spanish 102 – 4 credits Spanish 201 – 3 credits
Complete with a BC or C	**French 202**	**Spanish 202**
Receive 5.5 retroactive credits for:	French 101 – 2 credits French 102 – 2 credits French 201 – 1.5 credits	Spanish 101 – 2 credits Spanish 102 – 2 credits Spanish 201 – 1.5 credits

What is the cost for the college credit option?

During the 2020-2021 school year, the cost for enrolling in French 202 or Spanish 202 as a 3 credit CCIHS course at Lincoln High School is:

- $300 ($100 per college credit)

(The same course if taken at UW-Green Bay is $984.78.)

If I register for the IB/Advanced level language classes, do I need to take them for college credit?

No. It is your decision whether or not you would like to take the course for college credit. You can choose to take the class for high school credit only and not pay for the college credit option.

What are the benefits of taking the course for college credit?

Benefits of the CCIHS program include:

- Get a head start on college, by earning college credit on a UWGB transcript. (Your grade in the year-long language course at Lincoln will be converted into a grade on your UWGB transcript and is included in your college grade point average.)
- Save money on tuition (save nearly $700 by taking the course at Lincoln instead of taking the equivalent 202 course at UWGB)
- Accelerate the completion of a college degree
- Experience college rigor in high school
- Register earlier than your peers for second semester college classes when you begin college

What should I do if I would like to enroll in a class for college credit?

- Register for the appropriate level of language class for which you have met the prerequisites:
  - IB French / Adv. French Yr. 1
  - IB French / Adv. French Yr. 2
  - IB Spanish / Adv. Spanish Yr. 1
  - IB Spanish / Adv. Spanish Yr. 2
- In your IB / Advanced language class in the fall, you may register for the CCIHS program. (You will receive further information regarding registration and fees from your instructor in the fall. You may take the course for college credit as a junior and/or senior.)
- If you enroll in the IB / Advanced Yr. 1 language course for college credit as a junior, you may choose to take the year 2 course for additional college credits as a senior. (Additional information will be shared with you once you begin your language course.)

Academic Awards/ Academically Challenging Courses

Students can earn academic award points (not GPA points) through semester grade point averages and certain qualifying courses. A GPA of 3.999+ earns 3 points, 3.5-3.9 earns 2 points, and 2.9-3.4 earns 1 point. Qualifying courses are those identified as academically demanding and earn an additional .25 points per semester when completed at the A and B level. Points earned are credited toward the academic award only, not graduation credits. Students who earn 9 points receive the school letter; 12 points a special pin; and 16 points a plaque.

Academically Challenging Courses for Graduating Classes of 2021-2023

(Earn an additional .25 point per semester toward academic award only. These points cannot be used toward the required graduation credits.) Students who earn 9 points receive the school letter; 12 points a special pin; and 16 points a plaque.

Art
Art History
IB Visual Arts

Business Education
Business and Personal Law
Accounting 1, 2, & 3
IB Business Management
Computer Science Principles

English
Accelerated English 9
Accelerated English 10
Accelerated English 11
Advanced Placement English & Composition
Written Communication
IB Literature Yr. 1 & Yr. 2
Public Speaking
Oral Interpersonal Communications

Family/Consumer Science
Assistant Childcare Teacher
Child Development
Food Science

World Language
French 3,4
IB French/Adv. French Yr. 1
IB French/Adv. French Yr. 2
German 3,4
IB German Yr1. And Yr. 2
Spanish 3,4,
IB Spanish/Adv. Spanish Yr. 1
IB Spanish/Adv. Spanish Yr. 2

Music
IB Music

Math
Algebra2/Pre-Calculus
Algebra 2
IB Mathematical Studies
IB Mathematics SL/HL
Pre-Calculus
AP Statistics
AP Calculus AB
IB Math:Analysis & Approaches Yr. 1 &2
IB Math:Application and Interp. Yr. 1 & 2

Science
AP Biology
Anatomy & Physiology
Human Genetics
IB Biology
IB Ecosystems and Societies
Chemistry
AP Chemistry
Microbiology
Organic Biochemistry
Physics
IB Physics
Advanced Physics
Food Science
Principles of Engineering

Social Studies
AP Human Geography
AP U.S. Government
AP U.S. History
AP Psychology
Introduction to Sociology
IB History of the Modern World
IB History Europe
IB Psychology

Technology Education
Welding Processes
Metal Fabrication
Advanced Metal Fabrication
Advanced Auto Technology
Advanced Engineering Design
Computer Integrated Manufacturing
Introduction to Engineering
Principles of Engineering

Students who earn an award through June are presented those in a special recognition program near the start of the next school year

Laude Courses Starting with the Class of 2024

Starting with the Class of 2024, we will be implementing a Laude Honors System. The Laude system would replace the current class rank system used to rank and differentiate students. Students would earn Laude points for taking rigorous coursework. These points would be multiplied by the student's overall GPA to give a Laude score which would then be used to determine overall Laude ranking.

Implementing a Laude Honors system allows for the recognition of academic excellence based on a system of consistently applied standards rather than relative measures of performance and peer comparisons. This system encourages a higher level of academic rigor (which improves testing scores) and promotes a more equitable honors system for all students.

The Laude Cut Off Points are: Cum Laude= 16-31.95; Magna Cum Laude= 31.95-49.95; Summa Cum Laude= 50 or higher

In the chart on the next page is the list of approved courses for Laude rigor points.

Approved Laude Honors System Courses Starting with the Class of 2024

Art
Ind. Advanced 2D Art
Ind. Advanced 3D Art
IB Visual Arts (Yr. 1 & 2)
Ind. Advanced Photography
Ind. Advanced Graphic Design/Illustration

Business Education
Microsoft Office Essentials LTC
Accounting 1, 2, & 3 LTC
Computer Science Principles
Sports & Entertainment Marketing LTC
Programming Video Game Design LTC
IB Business Management

English
Accelerated English 9
Accelerated English 10
Accelerated English 11
AP English Literature & Composition
Written Communication LTC
IB Literature 1
IB Literature 2
Public Speaking LTC
Great Plays

Family/Consumer Science
Assistant Childcare Teacher
Child Development LTC
Adv. Culinary Arts/ProStart
Medical Terminology LTC
Adv. Fashion & Design
Health Occupations 1 LTC
Health Occupations 2

World Language
IB French/Adv. French Yr. 1
IB French/Adv. French Yr. 2
IB German Yr. 1 & 2
IB Spanish/Adv. Spanish Yr. 1
IB Spanish/Adv. Spanish Yr. 2

Math
Algebra 2/Pre-Calculus
Pre-Calculus
AP Calculus AB
AP Statistics
IB Math:Analysis & Approaches Yr. 1 &2
IB Math:Application and Interp. Yr. 1 & 2

Music
IB Music Yr. 1 & 2
Band, Orchestra, Vocal Music Yr. 3 & 4

Physical Education
Adv. Strength Training
Lifeguarding

Science
AP Biology
Anatomy & Physiology LTC
Human Genetics
IB Biology (Yr. 1 & 2)
IB Ecosystems and Societies
Chemistry LTC
AP Chemistry
Microbiology LTC
Organic Biochemistry
Physics LTC
IB Physics (Yr. 1 & 2)
Advanced Physics
AP Environmental Science
Principles of Engineering

Social Studies
Adv. Modern US History
AP Human Geography
AP U.S. Government & Politics
AP U.S. History
AP Psychology LTC
Introduction to Sociology LTC
IB History of the Modern World
IB History of Europe
IB Psychology (Yr. 1 & 2)
Accelerated Civics
Accelerated Economics

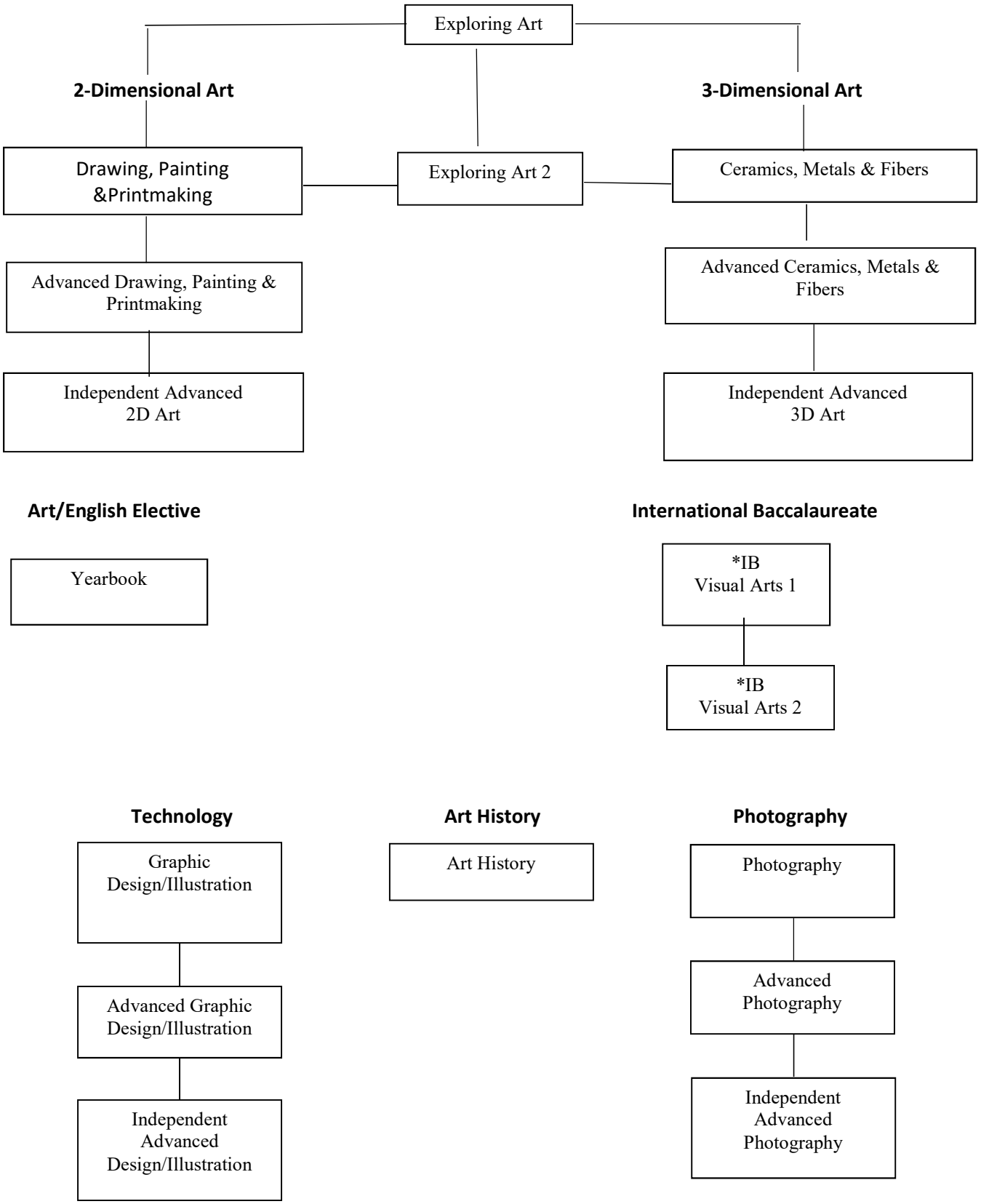
Technology Education
Metal Fabrication LTC
Advanced Metal Fabrication
Advanced Auto Technology
Engineering Design & Development
Computer Integrated Manufacturing
Introduction to Engineering Part 1 & 2
Adv. Woodworking
Capstone in Engineering and Design

Theatre
IB Theatre Arts Yr. 1 & 2
Stagecraft III

Youth Apprenticeship
Courses taken at college/tech college as part of program
Youth Apprenticeship Credits

Early College Credit/Start College Now
Courses taken for credit at a college/tech college

VISUAL ARTS


Exploring Art
2-Dimensional Art
3-Dimensional Art
Drawing, Painting &Printmaking
Exploring Art 2
Ceramics, Metals & Fibers
Advanced Drawing, Painting & Printmaking
Advanced Ceramics, Metals & Fibers
Independent Advanced 2D Art
Independent Advanced 3D Art
Art/English Elective
International Baccalaureate
Yearbook
*IB Visual Arts 1
*IB Visual Arts 2
Technology
Art History
Photography
Graphic Design/Illustration
Art History
Photography
Advanced Graphic Design/Illustration
Advanced Photography
Independent Advanced Design/Illustration
Independent Advanced Photography

ART

Course	Credit	9	10	11	12
Yearbook #1616	1	X	X	X	X
Exploring Art, #1114	.5	X	X	X	X
Exploring Art 2 #1562	.5	X	X	X	X
^Art History, #1127	.5		X	X	X
Photography, #1120	.5	X	X	X	X
Advanced Photography, #1155	.5	X	X	X	X
*Independent Advanced Photography, #1131	.5		X	X	X
Drawing, Painting, Printmaking, , #1107	.5	X	X	X	X
Advanced Drawing, Painting, Printmaking, #1103	.5		X	X	X
*Ind. Advanced 2D Art, #1148	.5		X	X	X
Ceramics, Metals, Fibers, #1126	.5	X	X	X	X
Advanced Ceramics, Metals, Fibers, #1113	.5		X	X	X
*Ind. Advanced 3D Art, #1147	.5		X	X	X
Introduction to Graphic Design/Illustration #1117	.5	X	X	X	X
Advanced Graphic Design #1122	.5	X	X	X	X
*Independent Advanced Graphic Design #1124	.5		X	X	X
^*IB Visual Arts Year 1, #1157	1			X	X
^*IB Visual Arts, Year 2, #1158	1				X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

ART

^Art History, #1127

Length: One Semester — *Grade: 10,11,12*
Prerequisite: None — *Credit: .5 Elective*

Students interested in history or art, especially those who intend to pursue an art-related career are encouraged to take this course. Discover the history and significance of art and explore how art has developed from the Renaissance to the present day. Take a closer look at the lives of notable artists, their masterpieces, and how the changing trends in art have reflected events and changes in the world. Students will get an excellent foundation in art history through discussion, research, and hands-on art projects.

Exploring Art, #1114

Length: One Semester — *Grade: 9,10,11,12*
Prerequisite: None — *Credit: .5 Elective*

This is the introductory art course for 2D and 3D visual arts -students will design and explore basic techniques of drawing, painting, printmaking, ceramics, and sculpture. A wide variety of materials will be used such as pencil, colored pencil, pastels, watercolor paints, recycled materials, and ceramics.

Exploring Art 2, #1562

Length: One Semester — *Grade 9, 10, 11, 12*
Prerequisite: Exploring Art — *Credit: .5 Elective*

In this course students will advance their skills in design and techniques of drawing, painting, ceramics, and sculpture. A wide variety of materials will be available such as pencil, charcoal, colored pencil, pastels, watercolor paints, acrylic paints, ceramics, fabrics, and recycled materials.

Yearbook #1616
Length: Two Semesters *Grade 9,10,11,12*
Prerequisite: None *Credit: 1 Elective*

Students will learn the following skills: writing, editing, business, layout, graphics and photography. The course emphasizes photography, graphic design/layout and journalism ethics. Leadership opportunities are available. Yearbook is a time extensive course with real deadlines and requires a serious commitment by the student.

Drawing, Painting, Printmaking , #1107
Length: One Semester *Grade: 9,10,11,12*
Prerequisite: Exploring Art *Credit: .5 Elective*

In this course students will increase their creativity in 2D design while learning new advanced techniques in drawing, painting, and printmaking. This course will help students feel confident using various 2D materials such as graphite, charcoal, pastels, watercolor and acrylic paints, and linoleum block printing.

Advanced Drawing, Painting, Printmaking , #1103
Length: One Semester *Grade: 10,11,12*
Prerequisite: Drawing, Painting, Printmaking, #1107 *Credit: .5 Elective*

In this course students will use the Elements of Art and Principles of Design to create meaningful artworks, advance their skills in 2D design, and further develop their techniques in drawing, painting, and printing. Students will be able to choose the 2D media(materials) for their projects.

***Independent Advanced 2D Art, #1148**
Length: One Semester *Grade: 10,11,12*
Prerequisite: Advanced Drawing, Painting, Printmaking , #1103 *Credit: .5 Elective*
May be repeated for credit. Prerequisites may not be taken concurrently with the Independent Advanced classes.

In this course students will use their knowledge from prerequisites to develop individual goals for their 2D art -drawing, painting, and printing. With teacher's guidance the student will develop an individual project plan for the semester -choosing their own materials, subject matter, and learning criteria.

Ceramics, Metals, and Fibers, #1126
Length: One semester *Grade: 9,10,11,12*
Prerequisite: Exploring Art *Credit: .5 Elective*

In this course students will learn advanced techniques of ceramics and gain experience with metals and fibers. This course will help students feel confident using various 3D materials such as clay, soldering metals, batik making (waxing & dying fabric), weaving, and embroidery.

Advanced Ceramics, Metals and Fibers, #1113
Length: One Semester *Grade: 10,11,12*
Prerequisite: Ceramics, Metals, and Fibers, #1126 *Credit: .5 Elective*

In this course students will get to experience raku clay and also be assigned projects in which they will choose the materials to work with -ceramics, sculpture, soldering metal, batik making, weaving, and/or embroidery. Students will use their knowledge from prerequisites to develop personal goals and determine the skills they would like to advance with.

***Independent Advanced 3D Art, #1147**
Length: One Semester *Grade: 10,11,12*
Prerequisite: Advanced Ceramics, Metals and Fibers, #1113 *Credit: .5 Elective*
May be repeated for credit. Prerequisites
may not be taken concurrently with the Independent Advanced classes.

In this course students will use their knowledge from prerequisites to develop individual goals for their 3D art -ceramics, sculpture, metals, and fibers. With teacher's guidance the student will develop an individual project plan for the semester -choosing their own materials, subject matter, and learning criteria.

Photography, #1120
Length: One Semester *Grade:9, 10,11,12*
Prerequisite: None *Credit: .5 Elective*

Photo will focus on the fundamentals of digital and traditional photography. Students will learn about: Cameras, composition, lighting and photo editing with software. The rules of composition and exposure triangle will be used throughout the year. Students will participate in self and peer review.

Advanced Photography, #1155
Length: One Semester *Grade: 9, 10,11,12*
Prerequisites: Photography, #1120 *Credit: .5 Elective*

Advanced Photo will emphasize mastering the camera and software editing. Students will explore using photography for self-expression and voice and begin to build a digital portfolio. The rules of composition and exposure triangle will be used throughout the year. Students will participate in self and peer review.

***Independent Advanced Photography, #1131**
Length: One Semester *Grade:10, 11,12*
Prerequisites: Advanced Photography, #1155 *Credit: .5 Elective*
May be repeated for credit. Prerequisites
may not be taken concurrently with the Independent Advanced classes.

Ind. Advanced Photo will emphasize mastering the camera and software editing. Students will explore using photography for self-expression and voice. An emphasis will be put on developing a portfolio (both printed and digital) for entrance into post-secondary programs and an online presence. Students will participate in self and peer review.

Graphic Design/Illustration, #1117
Length: One Semester *Grade:9, 10, 11,12*
Prerequisite: None *Credit: .5 Elective*

This course introduces students to the basic concepts and skills needed to pursue graphic design, illustration or related fields of study. Students will learn up-to-date skills in design, illustration, cartooning/character design, typography and marketing. Emphasis will be placed on digital imaging tools, critical thinking & design techniques.

Advanced Graphic Design, #1122
Length: One Semester *Grades:9,10,11,12*
Prerequisite: Graphic Design/Illustration#1117 *Credit: .5 Elective*

Develop additional skills needed to pursue graphic design, illustrator or related field of study. Students will learn 21st century skills in design, illustration, cartooning/character design, typography, marketing and graphics. Emphasis will be placed on digital image development, critical thinking alternatives, color theory, design techniques and portfolio building.

***Ind. Adv. Graphic Design, #1124**
Length: One Semester *Grades:10,11,12*
Prerequisite: Advanced Graphic Design, #1122 *Credit: .5 Elective*
May be repeated for credit. Prerequisites may not be taken concurrently.

Continue to explore the history and trends in graphic design and illustration. Students will develop independent projects, goals and timelines for the entire course. An emphasis will be put on developing a portfolio (both printed and digital) for entrance into post-secondary programs and an online presence. May be repeated for credit.
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^*IB Visual Arts SL/HL Year 1, #1157
Length: Two Semesters *Grades: 11*
Prerequisite: None *Credit: 1 Elective*

^*IB Visual Arts SL/HL Year 2, #1158
Length: Two Semesters *Grades: 12*
Prerequisite: IB Visual Art, Yr. 1 #1157 *Credit: 1 Elective*

IB Visual **Arts** is a demanding, two-year **course** of study in which students create a body of work that demonstrates a solid understanding of the vocabulary of the artist. Coursework is assessed both internally and externally.

The IB Visual Art course provides students with opportunities for structured learning and personal exploration, along with research of a more experimental nature. Many art techniques and media will be explored to

- **Stimulate** and train visual awareness, perception and criticism of the visual arts.
- **Encourage** the pursuit of quality, through training, individual experiment and persistent endeavor to investigate, create and explore how innovative you can be.
- **Exemplify** and encourage a lively, inquiring and informed attitude towards art and design in all its forms, culturally, historically and aesthetically.
- **Explore** the world of art through investigation of other cultures and their interpretation of what ART means to them in their land.

This course is based upon the requirements from the International Baccalaureate Art and Design curriculum. Students will build on their current knowledge of art and art making skills through a variety of guided and independent projects, research, critique, and homework assignments. Opportunities to make personal, socio-cultural and aesthetic experiences meaningful through the study of art from various cultures will encourage an inquiring and integrated approach to the production and understanding of art.

CTE Works for High School Students!

Career and Technical Education (CTE) focuses on the exploration of the self in relation to the world of work.

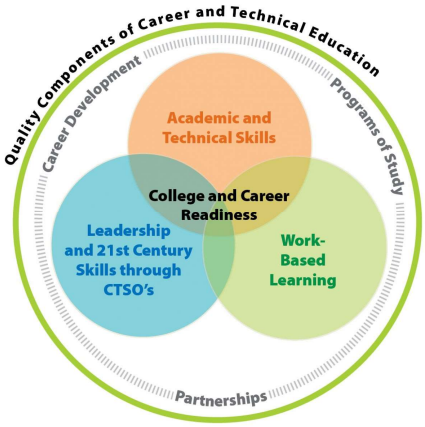
High school students involved in CTE are more engaged, perform better and graduate at higher rates.

- **College and Career Readiness:** CTE programs provide quality work-based learning programs, relevant academic skills, and the employability skills and workforce behaviors necessary for postsecondary success and careers.
- **Academic & Technical Skills:** Promotes life-long learning in a global society.
- **Work-Based Learning:** Enhances business and education partnerships, provides students with opportunities to reinforce skills and behaviors to be effective in the workplace.
- **Leadership and 21st Century Skills through Career and Technical Student Organizations (CTSOs):** CTE programs support skills such as communication, critical thinking, problem solving, entrepreneurship and leadership through CTSOs.
- Learn more about CTE at https://careertech.org/ and http://dpi.wi.gov/cte

What program areas are included in CTE?

Business and Information Technology Education
Family and Consumer Sciences
Technology and Engineering Education
Youth Apprenticeship
Work Experience

CTE™
Learning that works for Wisconsin



Business and Information Technology

Course	Credit	9	10	11	12
Business Management & Marketing					
^Business and Personal Law #1244	.5	X	X	X	X
Who's the Boss? #1245	.5	X	X	X	X
*Sports & Entertainment Marketing #1236 LTC	.5	X	X	X	X
^*IB Business Management	1			X	X
Finance					
Personal Finance #1213	.5		X	X	X
^*Accounting 1 #1255 LTC	1	X	X	X	X
^*Accounting 2 #1257 LTC	1		X	X	X
^*Accounting 3 Independent Study #1274 LTC	1			X	X
Information Technology					
Web Page & Mobile App Design #1508	.5	X	X	X	X
*Programming & Video Game Design #1202 LTC	.5	X	X	X	X
^*Computer Science Principles CSP #1224 PLTW	1	X	X	X	X
*Microsoft Office Essentials #1276 LTC	.5	X	X	X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

Business Management & Marketing

^Business & Personal Law, #1244

Length: One Semester — *Grade: 9,10,11,12*
Prerequisite: None — *Credit: .5 Elective*

In this course you will explore:

- Sources of law and the court system
- Criminal and civil law
- Contract and business law
- Consumer and employment law
- Debate law topics
- Case study applications
- State court and Manitowoc court field trips included
- Use of technology in projects and resources

Who's the Boss? #1245
Length: One Semester *Grade: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

Are you business savvy? Do you have what it takes to start, own and manage a business?
In this course you will:

- Identify the skills, attitudes and traits needed to be successful business owner
- Develop a business plan
- Learn techniques to market and staff your business using technology.
- Explore the business environment, its function and key business concepts
- Apply business principles and practice skills

***Sports and Entertainment Marketing, #1236**
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

In this course you will:

- Discover and apply marketing concepts to the sports and entertainment industries
- Explore sports and entertainment event marketing, sponsorships, endorsements and strategies
- Create individual and collaborative marketing projects
- Enhance marketing concepts through sports simulation software
- Participate in a class field trip

^*IB Business Management #1247
Length: Two Semesters *Grades: 11,12*
Prerequisite: Highly recommended for. *Credit: 1 Elective*
students to take Accounting 1

IB Business Management examines the business decision-making processes and how these decisions impact internal and external environments. The course is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills. The course considers the diverse range of business organizations and activities and the cultural and economic context in which business operates. Emphasis is placed on strategic decision-making and the day-to-day business functions of marketing, production, human resource management, and finance. The course aims to help students understand the implications of business activity in a global market. It is designed to give students an international perspective of business and to promote their appreciation of cultural diversity through the study of topics like international marketing, human resource management, growth, and business strategy.

Finance

Personal Finance, #1213
Length: One Semester *Grade 10,11,12*
Prerequisite: None *Credit: .5 Financial Literacy*

In this class you will:

- Play the stock market game and a computer simulation program
- Prepare budgets, paychecks and tax returns
- Reconcile bank accounts
- Investigate types of insurance and credit
- Research careers, investments and teen consumer issues

^*Accounting 1, #1255

Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: None *Credit: 1 Elective*

Accounting is the language of business and is a requirement for all business and marketing college majors.

In this course you will:

- Learn how accounting systems/concepts are used in various types of businesses
- Analyze, journalize, post and close business transactions
- Prepare financial statements for sole proprietors, partnerships and corporations
- Use Microsoft Excel and other supplemental software to complete problems
- Practice communication, problem solving, ethical and critical thinking skills

^*Accounting 2, #1257

Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Accounting 1, #1255 *Credit: 1 Elective*

In this second year course, you will learn new accounting material as well as delve deeper into the accounting topics studied in the first year.

In this course you will:

- Prepare, interpret, and analyze financial statements and budgets
- Calculate payroll and create bank statements
- Evaluate the performance of an organization using cost, auditing and departmentalized principles
- Use Microsoft Excel and other supplemental software
- Practice communication, problem solving, ethical and critical thinking skills

^*Accounting 3 (Independent Study), #1274

Length: Two Semesters *Grades: 11,12*
Prerequisite: Accounting 1 #1255 and Accounting 2 #1257 *Credit: 1 Elective*

Independent study is intended for students that have completed regularly offered business education classes in the area of accounting. This course is articulated with Lakeshore Technical College's Cost Accounting 1 course.

Information Technology

***Programming and Video Game Design, #1202**

Length: One Semester *Grade: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

In this course you will:

- Be introduced to object-oriented programming concepts
- Enhance your knowledge of computer hardware and software concepts
- Develop a foundation in computer programming concepts in a very interactive, visual presentation using Alice software
- Develop and enhance your ability to perform logical problem solving
- Work with programming concepts such as data structures, looping, flow charting
- Learn animated movie making and video game development in a fun and interesting way
- Earn Wisconsin Technical College credit if you complete this course with a C or higher

^*Computer Science Principles (CSP) #1224

Length: Two Semesters *Grade: 9,10,11,12*
Prerequisite: None *Credit: 1*

In this course you will:

- Use Python as a primary coding tool to develop computational thinking.
- Incorporate multiple platforms and languages for computation.
- Explore career paths that utilize computing
- Utilize professional tools that foster creativity and collaboration.
- Develop programming expertise and explore the workings of the Internet.
- Complete projects to acquire skills in app development, visualization of data, cyber security, robotics, and simulation.

***Microsoft Office Essentials #1276**

Length: One Semester *Grades: 9,10,11,12*
Prerequisite: Recommended but not required- Computer Skills #1266 *Credit: .5 Elective*

Most businesses use Microsoft Office software. Develop and enhance your software skills here!

In this course you will:

- Develop skills in Word, Excel and PowerPoint to assure your future success
- Explore capabilities of MS Outlook, including email and calendar features
- Produce documents using MS Publisher

Web Page & Mobile App Design #1508

Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

Web Page & Mobile App Design is a project base course that teachers students how to build their own web pages and mobile apps. Students will learn the languages of HTML and CSS and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how webpages/mobile apps are developed and viewed on the internet, analyze and fix errors in existing websites and create their very own multi page website and multi page app.

Family and Consumer Sciences

Family and Consumer Education courses offer students the opportunity to develop many practical life skills that will help them personally, as they prepare for independent and family living. Because all students can benefit from these classes, they should investigate the various areas offered to enrich their lives. Career opportunities will be explored in all courses.

Course	Credit	9	10	11	12
Human Services: Child Care					
^*Child Development #1450 **LTC**	.5	X	X	X	X
^*Assistant Child Care Teacher #1421	.5			X	X
Human Services: Fashion & Design					
Fashion and Design #1417	.5	X	X	X	X
*Advanced Fashion and Design #1419	.5	X	X	X	X
Interior Design #1428	.5	X	X	X	X
Culinary, Hospitality & Tourism					
Food Exploration, #1436	.5	X	X	X	X
Introduction to Culinary Arts #1439	.5	X	X	X	X
*Advanced Culinary Arts /ProStart #1438	1		X	X	X
Baking & Pastry Arts #1561	.5	X	X	X	X
Health Science					
*Health Occupation 1 #1422 **LTC**	.5	X	X	X	X
*Health Occupation 2 #1418	.5	X	X	X	X
*Medical Terminology #1462 **LTC**	.5		X	X	X
Financial Literacy					
On Your Own #1443	.5		X	X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

Human Services: Child Care

^*Child Development, #1450

Length: One Semester — *Grades: 9,10,11,12*
Prerequisite: None — *Credit: .5 Elective*

Ever wonder, "What makes children tick?" This course investigates that very question. It is designed to explore children's physical, social, emotional, and intellectual development in the past, present, and future. Students will develop the knowledge, skills, and confidence needed to work with children. They will apply their knowledge and skills in conducting a playschool for 2, 3 and 4 year olds.

^*Assistant Child Care Teacher, #1421

Length: One Semester — *Grades: 11,12*
Prerequisite: Child Development, #1450 or approval by Instructor — *Credit: .5 Elective*

Thinking about a career involving children? This is the course for you because it will give you an overview of the early childhood profession. It focuses on developing positive relationships with children, providing learning experiences for them, child guidance techniques, and health and safety instruction. After successfully completing all the competencies of this class, earning a B average with an 85% attendance (six or fewer absences) record, you will earn the Assistant Child Care Teacher Certification. You will also be eligible to be employed at age 17 as an assistant child care teacher.

Human Services: Fashion & Design

Fashion and Design, #1417
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

This course introduces students to the exciting world of fashion. Students will learn and apply basic design concepts to create individualized apparel. Individual styles will be reflected through fabric choices and designs constructed. Creative hands-on projects will enhance development of techniques required to be a fashion designer.

***Advanced Fashion and Design, #1419**
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: Fashion Design, #1417 *Credit: .5 Elective*

Students will gain advanced knowledge and skills as they design and construct projects for themselves and others. They will learn key concepts for designing individualized patterns for specific body types. The design career cluster and pathway will be studied to allow for seamless transition into post-secondary opportunities. Entrepreneurship will be incorporated into this course to further develop students' comprehension of what it takes to be a fashion designer.

Interior Design, #1428
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

Are you interested in applying decorating principles and techniques for personal use or as a career? If so this class will give you an introduction to the design process. You'll learn now to create a floor plan using the principles and elements of design and be able to select a color scheme, organize your furnishings, as well as picking out floor and wall coverings. A state of the art computerized program will be utilized in this course. A field trip to the Kohler Design Center complements this course. You DO NOT need to have artistic ability to succeed in this course.

Culinary Arts, Hospitality & Tourism

Food Exploration, #1436
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

Do you possess an interest in expanding your knowledge of food and cultural cuisine? Do you wonder how you are going to keep your family safe from potential hazards in your home kitchens? Do you understand how and why a recipe can work repetitively? Food Exploration will provide you the opportunity to learn and experience new cooking techniques along with the basics of the kitchen environment. You will learn proper measurement techniques and why that is important. You will know how to properly utilize kitchen equipment and knife work, why uniformity of ingredients are necessary to a consistent product and you will get a basic exposure to everything from baking and cooking techniques to understanding how to purchase your foods correctly from your grocer. We will work with carbohydrates, fats, and proteins and understand how and why they work together by making breads, muffins, pastries, fruits, vegetables, starch cookery, desserts, meats, and much more! This course fulfills the prerequisite for Introduction to Culinary Arts.

Introduction to Culinary Arts, #1439
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: Food Exploration, #1436 *Credit: .5 Elective*

Are you creative? Would you like to "play" with your food? Would you like to experiment making your own culinary creations? This class is an opportunity to let your creative juices flow. This course is also available for students who think they might have an interest in the culinary or hospitality fields OR who just want to bring their cooking skills and creativity to the next level. Students will apply the food service standard and safety practices from Food Exploration while expanding their culinary skill sets as they prepare and serve food. The art of food presentation is also a focal point of this class. Students will elevate their basic cooking skills to include many more techniques and styles of food preparation, will be exposed to food sculpting and garnishing, creative and cultural cooking and techniques, and through the team collaborative approach to menu planning and recipe development will provide meals to several in-lab events. A Thanksgiving community luncheon, a Mother's Day presentation, a Christmas Tea, and a mock restaurant are all in store for the adventurous young chef. You will also be allowed to join the culinary teams to compete for regional and state competitions for scholarship opportunities, awards and state recognition

***Advanced Culinary Arts/ProStart, #1438**
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Introduction to Culinary Arts, #1439 *Credit: 1 Elective*

So you now know how to cook and bake. You understand food safety and sanitation. NOW is the time to GROW. As my friend Emerill says, "Kick it up a notch" - and we will. This class builds on the experience and skills you now possess by providing you hands on experiences involving regional cooking and cuisines, outdoor grilling, pasta making and we finish with some decorative culinary plating and food sculpting. Various other labs will be incorporated into each semester to aid students who may wish to enter into the culinary field. So, welcome to ProStart. ProStart is the next step in your journey to the fantastic field of culinary arts, restaurants, bakeries or any other hospitality field you may wish to adventure into. In ProStart, we will participate in culinary competitions, create exciting menus and meals, provide community meals to supporting patrons, work to industry standards and beyond with meats, seafoods, garnishes, menu development, cost analysis, budgeting and business plan development. There are two levels of state competitions you may be involved in - Culinary and Managerial - with a hope to advance and represent your school at the National Competitions. You may choose to become ProStart and ServSafe Certified. All three certifications can be utilized as advanced standing in our area technical schools. There are also scholarship possibilities available to you through numerous restaurant affiliated organizations - WRA, WBA, NRA, ACF, AAC and several more. We will run our own restaurant within the walls of the school weekly, viewing all aspects of the culinary field - both front and back of the house tasks will be learned and following the Sullivan curriculum, we will learn just exactly what hospitality all entails.

Baking & Pastry Arts #1561 *Grades: 9,10,11,12*
Length: One Semester *Credit: .5 Elective*
Prerequisite: Food Exploration

You had an introduction to food. You now understand safety and sanitation in the kitchen environment. You love to bake and want to learn the chemistry of foods. Then there is a whole other world of adventure out there for culinary students who have the interest in the baking and pastry world. Endless employment opportunities await students who love to bake or decorate or both. Students will see the vast world of bakery opportunities and make cakes, tortes, pastries, tarts, donuts, yeast breads, quick breads, pate au choux and much more. Then we can stem into pastry arts and make decorative chocolates, ganaches, butter creams, icings, cream horns and chantilly cremes - and maybe even ice creams … Come, let's get into the mix and work with high quality ingredients, endless ideas and let's develop your fine pastry skill sets.

Health Science

***Health Occupations 1, #1422**
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

The goal of the course is to give students an overview of the health care field and identify the unique characteristics and skills needed by workers. In addition to researching health related careers, students will also study legal responsibilities and personal ethics, health care systems and hands on learning activities. Throughout the course speakers will be brought in from the community to share their work experiences in the health field. Students will also have an opportunity to go on field trips to see health care facilities and obtain a better understanding about what goes on in each.

***Health Occupations 2, #1418**
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: Health Occupations 1, #1422 *Credit: .5 Elective*

Students will be engaged in several health occupations as they attend a career experience of their choice. They will expand their knowledge of diseases and treatments and will increase their work skills through numerous hands on activities. Emphasis will be placed on learning the body systems through the use of the Anatomy in Clay experience. Students will also obtain skills in taking blood pressures and temperatures, actively engage in numerous geriatric simulations, as well as other diagnostic tools. Learning will be enhanced through potential hands on fieldtrips.

***Medical Terminology, #1462**
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Elective*

Are you planning to go into a health career? This is the class for you! Through the study of medical terminology the student will be introduced to the language of medicine. Students will gain an understanding of basic elements, rules of building and analyzing medical words, and medical terms associated with the body as a whole. Utilizing a systems approach, the student will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, oncology and pharmacology. In addition to medical terms, common abbreviations applicable to each system will be interpreted. **Advanced Standing for successful completion of this course.**

Financial Literacy

On Your Own, #1443
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Financial Literacy or Elective*

(On Your Own counts for MPSD .5 credit of financial literacy)
Are you ready to move out "On Your Own"? Do you know what it takes to be financially responsible? In this class you will experience the realization of living on your own in the fictitious town of Mantyville. This simulated course will help you become a wiser consumer and financial planner. Topics in this course include how to increase your chances to get your dream job, what you need to know in order to get your first apartment, budgeting your finances and other important topics which will help you steer towards a successful financial future. A field trip to local apartments will complement this class.

Technology & Engineering Education

Course	Credit	9	10	11	12
Science, Technology, Engineering & Mathematics (STEM)					
^*Introduction to Engineering and Design Part 1 #1513	.5	X	X	X	X
^*Introduction to Engineering and Design Part 2 #1514	.5	X	X	X	X
^*Engineering Design & Development #1545	1		X	X	X
^*Principles of Engineering #2057	1		X	X	X
^*Computer Integrated Manufacturing #1506	1		X	X	X
*Capstone in Engineering and Design #1515	1				X
Architecture & Construction					
General Woodworking #1573	.5	X	X	X	X
*Advanced Woodworking #1535	.5		X	X	X
Construction Trades #1578	1		X	X	X
Introduction to Electricity & Electronics #1553	.5	X	X	X	X
Manufacturing					
^Welding Processes #1512 **LTC**	.5	X	X	X	X
^*Metal Fabrication #1547 **LTC**	.5	X	X	X	X
^*Advanced Metal Fabrication #1539	1		X	X	X
Transportation					
Integrated Transportation Systems #1591	1	X	X	X	X
Consumer Auto Service #1570	1		X	X	X
^*Advanced Auto Technology #1571	1			X	X
Independent Study	1			X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

Science, Technology, Engineering & Mathematics (STEM)

^*Introduction to Engineering and Design (IED) Part 1 #1513

Length: One Semester — *Grades: 9,10,11,12*
Prerequisite: None — *Credit: .5 Elective*

In this course, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students work both individually and in teams to design solutions to a variety of problems. Skills acquired in this course will include use of engineering and design process, technical drawings, precision measurement, statistical analysis, and an introduction to 3D computer aided drafting (CAD) software.

^*Introduction to Engineering and Design Part 2 #1514 (Formally the 2nd semester of IED)

Length: One Semester *Grade 9,10,11,12*
Prerequisite: Introduction to Engineering and Design Part 1 *Credit: .5 Elective*

This course is designed to be taken in sequence with IED Part 1. In this course, students will continue to improve many of the skills obtained in *Introduction to Engineering and Design* with an emphasis on different engineering technologies. Students will work to improve their CAD skills and will use 3D models to propose solutions to numerous open ended design projects throughout the course. Students will also gain some experience operating equipment such as 3D printers, laser, engravers and CNC routers to prototype solutions to design projects.

^*Engineering Design and Development, #1545 (Formally Advanced Engineering & Design)

Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Intro to Engineering & Design Part 1 & 2 *Credit: 1 Elective*

In this course students will use their experience with the design process and 3D modeling from Introduction to Engineering and Design Part 1 & 2 to solve numerous problems. IED built some skills and now they will be put to the test in this project based class. This class places a heavy focus on working as a team to solve problems and build project management skills. We will explore different areas of engineering by taking on problems related to, process and product improvement, fluid power, mechanical systems, architectural drafting and design, strength of materials, programming and robotics. Students will keep engineering notebooks and create design portfolios for their projects. The final quarter will include a capstone design and fabrication project.

^*Principles of Engineering, #2057

Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Algebra *Credit: 1 Phys. Sci or Elective*

NCAA Approved

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Students will use knowledge of material properties and effects of stress to build a support structure. Students will also apply concepts of mechanical, electrical and control systems in a design problem.

Strongly recommend a C or better in Algebra before taking this class.

^*Computer Integrated Manufacturing, #1506

Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Intro to Engineering & Design Part 1 *Credit: 1 Elective*

Manufactured items are a part of everyday life, yet most students have not be introduced to the high tech, innovative nature of modern manufacturing. The major focus of this course is to answer questions such as: How are things made? What processes go into creating products? How has automation changed the face of manufacturing? As students find the answers to these questions, they learn about the history of manufacturing, explore manufacturing processes, product design, robotics, and automation. The course is built around several key concepts including computer modeling, Computer Numeric Control (CNC) equipment, Computer Aided Manufacturing (CAM) software, robotics and flexible manufacturing systems.

***Capstone in Engineering & Design, #1515**
Length: Two Semesters *Grade: 12*
Prerequisite: Completion of 3 or more engineering courses and instructor approval *Credit: 1 Elective*

This course is designed to provide motivated students who have taken at least three other engineering courses with a capstone design project. This course will utilize Engineering and Design process to identify, analyze and solve a real work problem(s) chose by each student. The design process will be used to complete a design project(s) through the duration of the year. When each step occurs will be student and project dependent as this course is meant to me largely student drive. This course will involve student research, contact with professionals, building technical skills required to solve chosen problem, data collection, formal documentation of the design process, and evaluation of proposed solutions by a small panel.

Architecture & Construction

General Woodworking, #1573
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

This course is designed to familiarize students with hand and power tools and how to properly use them. Students will have the opportunity to design and build interesting projects using woodworking equipment, portable power tools and hand tools. Computer-aided machining is utilized on various wood projects. Emphasis is on problem-solving, material selection, safety, machine operation, fabrication and finishing in this project based class. Employability skills and career education choices are emphasized in this pathway.

***Advanced Woodworking, #1535**
Length: One Semester *Grades: 10,11,12*
Prerequisite: General Woodworking, #1573 *Credit: .5Elective*

Advanced Woodworking introduces students to the fields in wood manufacturing. Students will learn through hands-on experiences by utilizing equipment and manufacturing procedures as well as tools of the trade~~s~~. A key element **of** this class involves skill building and career exploration through hands-on projects they choose related to product manufacturing, furniture, and finish carpentry. The practice of employability skills and visits to local manufacturers and technical colleges will assist the student in gaining insight in a woodworking career. Note: This class may be repeated.

Construction Trades, #1578
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: None *Credit: 1 Elective*

This course will provide students the opportunity to explore the construction trades in both a classroom and lab environment. Technical skills like project planning and design, blueprint reading and math application, as well as visits from local contractors, will assist in providing insight in the residential and commercial construction pathway. Construction activities are hands-on and project based, these may include building a small structure and room sections with practice in plumbing, electrical wiring, and carpentry. Exposure to career opportunities and building employability skills are emphasized throughout the duration of this construction trades class.

Introduction to Electricity & Electronics, #1553
Length: One Semester *Grades: 9,10,11,12*
Prerequisite: None *Credit: .5 Elective*

Students will investigate the basic components of electricity and build circuits with lamps, batteries, and switches. Different types of residential wiring circuits will be examined and operated. The production of electricity by various means will be analyzed. Hands on projects with electrical and electronic circuits will provide practical experiences. An opportunity to discover various electronic and electrical careers, education requirements and future employment possibilities will be provided.

Manufacturing

^Welding Processes # 1512

Length: One Semester — *Grades: 9, 10,11,12*
Prerequisite: None — *Credit: .5 Elective*

This course is designed to help students gain insight into the process of welding metal. Students will experience Arc (stick), Oxyacetylene (gas), and MIG (wire-feed), and Resistance (spot) welding. We will work individually to develop proper welding techniques, operate equipment and practice safety precautions as you explore what this exciting trade has in store as a future career. Students are eligible for LTC Advanced Standing credit upon completion of both Welding Processes and Metal fabrication.

^*Metal Fabrication #1547

Length: One Semester — *Grades: 9, 10,11,12*
Prerequisite: None — *Credit: .5 Elective*

In this course students will experience foundry, machining techniques, and sheet metal forming in a hands-on setting. This course emphasizes the fundamentals of metalworking through fabrication, assembly and finishing processes. Students will change raw material into useful, attractive projects in a safe manufacturing environment. In the classroom we will focus on technical writing and math, print reading, employability skills, team building and careers in this trade. Students are eligible for LTC Advanced Standing credit upon completion of both Welding Processes and Metal fabrication.

^*Advanced Metal Fabrication, #1539

Length: Two Semesters — *Grades: 10,11,12*
Prerequisite: Welding Processes #1512 — *Credit: 1 Elective*
or Metal Fabrication #1547

This advanced metalworking course builds on skills introduced in Welding Processes and Metal Fabrication. Students will have the opportunity to further their skills in the areas of MIG and TIG welding. Blueprint reading skills will be utilized during machining processes such as lathe turning and milling. Students will design and fabricate a metals-oriented project of their own choosing. Processes emphasized include casting, forging, heat treating, arc, and MIG welding, brazing, soldering, surface coating, and final assembly.

Transportation

Integrated Transportation Systems, #1591

Length: Two Semesters — *Grades:9, 10,11,12*
Prerequisite: Consumer Autos #1570 OR — *Credit: 1 Elective*
Welding Processes #1512 , OR Metal Fabrication #1547

This exciting, project-based course is a blend of both metal working and automotive related content. Students will be utilizing tools, equipment and processes to fabricate a transportation related project. Students will learn about small gasoline engines and their usage along with the development of a Beat the Heat type school vehicle. If you have taken Consumer Autos, Welding Processes or Metal Fabrication, this class is for you to further develop your skills with related class projects within the lab setting.

Consumer Auto Service, #1570

Length: Two Semesters — *Grades: 10,11,12*
Prerequisite: None — *Credit: 1 Elective*

If automobile ownership is in your future, then this hands-on, activity-based course is for you. Students will have the opportunity to work on the automobiles and engines in the auto's lab. Purchasing a car, engine basics, car care, and maintenance are some of the many exciting activities that you will experience in this course.

^*Advanced Auto Technology, #1571

Length: Two Semesters *Grades: 11,12*
Prerequisite: Consumer Auto Service #1570 *Credit: 1 Elective*

Students will develop skills that could lead to possible employment in the automobile industry or continuing technical education in auto mechanics. Advanced trouble-shooting techniques, bodywork, engine repair and performance, electrical systems, brakes and suspension work on the student's own vehicle or a shop vehicle are some of the many hands-on experiences that this course will provide.

Independent Study

Length: Two Semesters *Grades: 11,12*
Prerequisite: All technology classes offered and prior instructor approval *Credit: 1 Elective*

Independent study is intended for students that have completed regularly offered technology education classes in the areas of communications, construction, transportation, and manufacturing. Students wishing to pursue an interest beyond what is offered, may select an independent study with prior instructor approval.

Preparing for your Career

For students who want to be adequately prepared to enter a career following graduation, it is helpful to take several background courses in your area of interest. Students are encouraged to enroll in the *Work Experience* or *Youth Apprenticeship* programs for on-the-job training.
As important as a good academic preparation, **employers want evidence of a good work ethic:**

- Good Attendance
- Ability to interact positively with others
- Responsibility
- Initiative/effort
- Quality of work
- Integrity
- Self-Confidence
- Good Team Work
- Communication Skills

School to Work Opportunities

Work Experience

0.5 credit per hour per semester (can be taken up to 3 consecutive hours a day)
#1420 (1 Hour)
#1474 (2 Hours)
#1432 (3 Hours)

Work Experience provides students with the opportunity to develop and practice employability skills in a workplace setting, gain valuable feedback on these skills from their employers, and reflect on how these skills transfer to their future career goals. Following an initial meeting with the Work Experience Teacher and completion required program paperwork, students will begin their early release privilege.

In order to be successful and gain credit for Work Experience, students must:
1. have a legitimate job (i.e. on-the-payroll)
2. complete the required number of work hours based on the number of hours enrolled in Work Experience (see below) -90 work hours within the semester (~5 hours per week) to earn 0.5 credit -180 work hours within the semester (~10 hours per week) to earn 1.0 credit -270 work hours within the semester (~15 hours per week) to earn 1.5 credit
3. submit weekly timesheets documenting the number of hours worked
4. complete and submit quarterly assignments

For more information about Work Experience, contact:
Ashley Waniger, School-to-Work Coordinator
Lincoln High School, Room 130
920-663-9649
wanigera@mpsd.school

***Youth Apprenticeship**
(3 Credits/Year) *Grades: 11,12*

Do you want to be PAID to get a jump-start on your future?
Youth Apprenticeship(YA) is a 1 or 2 year program that combines mentored, on-the-job learning with academic and technical classroom instruction. YA opens doors for students by giving them the chance to "try out" a career area while experiencing an adult working environment. Students gain paid, hands-on learning with a business mentor, while completing classroom instruction related to the career area.

Students are released for part of the school day to spend time learning employability and industry-specific skills as a local employer. YA students also earn an Occupation Skills Certification, which verifies that they have gained the skills, knowledge and experience that are necessary to be successful in their chosen industry.

Note: Students are selected for the program based on an interview with potential business partners and an application, which includes attendance and academic records. Positions are limited since everyone must have a business partner. Students are responsible for their own transportation. Interviews take place March through May.

Am I a Good Candidate for Youth Apprenticeship?

Attitude
-Have a career interest related to a Youth Apprenticeship program area
-Desire and maturity to be work in an adult setting, with adult responsibilities
-Willing to learn, accept constructive feedback, and be coached by a mentor on the job
-No history of behavioral issues or suspensions from school

Academics
-On track with credits required for graduation
-Able to maintain passing grades for all courses while enrolled in the program
-Can be released for 2 or more class periods during the school day pending work hours

Reliability
-Demonstrated being punctual and reliable with attendance
-Have reliable transportation to and from the workplace
-Flexibility to work and attend any necessary training during the summer and school year

For more information contact:
Bonnie Proszenyak, Youth Apprenticeship Coordinator
School-to-Work Office,(Lincoln High School Room 130)
920-663-9647
proszenyakb@manitowocpublicschools.org

Youth Apprenticeship Programs

YA Programs	YA Pathways
Agriculture	Animal Science
	Plant Science
	Veterinary Technician
	Water Resources Management
	Agriculture Mechanic
Construction	Carpentry
	HVAC
	Plumbing
	Electrician
	Masonry/Concrete
Financial Services	Accounting
	Banking
	Insurance
Health Science	Certified Nursing Assistant
	Dental Assistant
	Dietary Aide
	Medical Office
Hospitality, Lodging, & Tourism	Food & Beverage
Information Technology	IT Essentials
Manufacturing	Industrial Equipment Maintenance
	Machining
	Welding
	Wood Processing
	Production/Assembly
Marketing	Marketing Communications
	Professional Sales
Science, Technology, Engineering, & Math (STEM)	Engineering/Drafting
Transportation	Auto Technician
	Diesel Technician

For more information contact:
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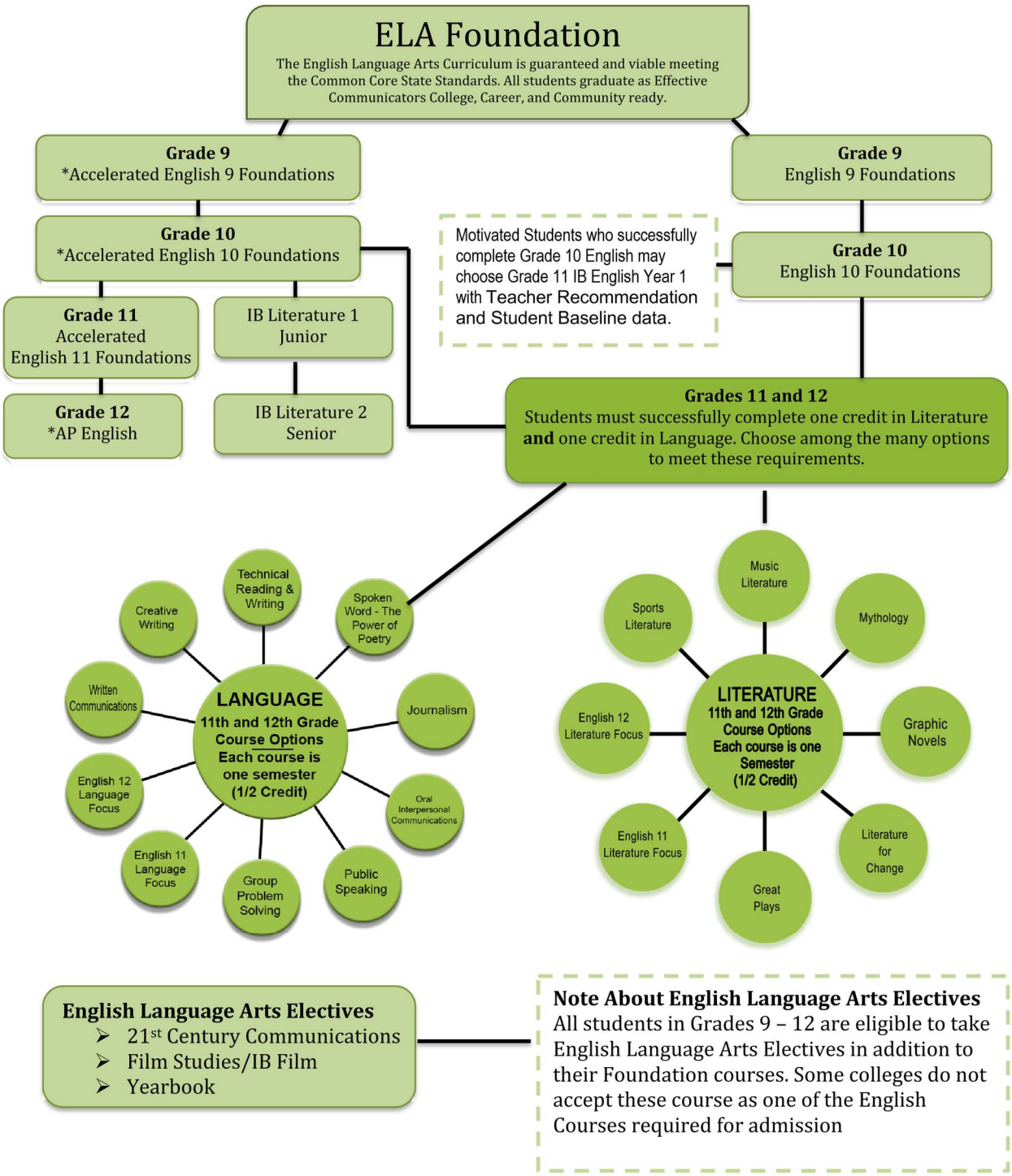
English
Graduation Requirements = 4 Credits
Course Recommendations:

The English Language Arts program at Lincoln High School is centered on building and reinforcing skills in the areas of reading, writing, speaking, and listening. We understand students' needs and interests vary. As such, the Lincoln English Language Arts Course Pathway is a guaranteed and viable curriculum designed to give students choice and to engage students in their learning through a variety of course options. All course meet the Common Core English Standards and the LHS ELA courses follow a continuum of rigor ensuring students are effective communicators upon graduation. Ninth and tenth grade students are required to take the Foundation courses. Eleventh and twelfth grade students are required to take one full credit of Literature and one full credit of Language. Students have many courses from which to choose to fulfill this requirement. Additionally, there are several English Electives all students may take in addition to their required courses. We encourage students experience any or all of our ELA Elective offerings as they become career, college, and community ready to succeed.

Course Pathways Sequence Suggestions:
All of the English Language Arts courses are designed to ensure students graduate as effective communicators college, career, and community ready to succeed.

1. Students who plan on attending a 2 or 4 year college should consider the following sequence of courses as a traditional college-prep experience: Grade 9 - *English 9 or Accelerated English 9;* Grade 10 - *English 10 or Accelerated English 10;* Grades 11 and 12: Any of the Literature and Language courses with an emphasis on *Technical Reading and Writing*, *Written Communications, Public Speaking*,
2. Students capable of an accelerated college prep sequence of courses (very strong reading and writing skills along with a high degree of motivation) should consider the following courses: Grade 9 - *Accelerated English 9;* Grade 10 - *Accelerated English 10;* Grade 11 - *Accelerated English 11;* Grade 12 - *Advanced Placement English*. **Note**: *Accelerated English 10 and Accelerated English 11* recommendations are prerequisites for taking *Advanced Placement English.* Additional courses in English, particularly *Written Communicati*ons, will enhance the students' writing in a writing intensive setting. Students who take *AP English* as seniors may also earn college credits by successfully taking the College Board AP Literature and Composition exam in May of their senior year.
3. Students interested in the IB program may consider the following sequence of courses: Grade 9 - *Accelerated English 9;* Grade 10 - *Accelerated English 10;* Grade 11 - *IB English Year 1;* Grade 12 - *IB English Year 2.* Students who take IB English as juniors and seniors may also earn college credits by successfully taking the IB English assessments and exams in their junior and senior years.
4. All students, college-bound or career-bound, are encouraged to take additional English credits as part of their elective requirements.

High School English Course Curriculum Pathway



This chart is not exclusive. Students, with their teachers, will make decisions as to placement at the end of the year. However, in order to take IB English Year 2, the student must take IB English Year 1.

English Graduation Requirements = 4 credits

Course	Credit	9	10	11	12
English 9, #1620	1	X			
^*Accelerated English 9 #1646	1	X			
English 10, #1623	1		X		
^*Accelerated English 10, #1647	1		X		
English 11 Language Focus# 1610	.5			X	
English 11 Literature Focus #1617	.5			X	
^*Accelerated English 11 #1669	1			X	X
^*IB English, Year 1, #1639 HL	1			X	
English 12 Language Focus, #1612	.5				X
English 12 Literature Focus, #1613	.5				X
^*Advanced Placement Literature/Composition, #1665	1				X
^*IB English, Year 2, #1640 HL	1				X
NEW Graphic Novels (Literature) #1625	.5			X	X
*Great Plays, #1674 (Literature)	.5		X	X	X
Group Problem Solving, #1643 (Language)	.5				X
Intro to Technical Reading and Writing #1631 **LTC** (Language)	.5		X	X	X
NEW Journalism (Language)#1609	.5			X	X
NEW Literature for Change (Literature) #1635	.5			X	X
NEW Music as Literature (Literature) #1622	.5			X	X
NEW Mythology (Literature) #1624	.5			X	X
^Oral/Interpersonal Communication #1615 **LTC** (Language)	.5	X	X	X	X
NEW Sports as Literature (Literature) #1621	.5			X	X
^*Public Speaking, #1672 **LTC** (Language)	.5		X	X	X
NEW Spoken Word – The Power of Poetry (Language) #1605	.5			X	X
^*Written Communications, #1666 **LTC** (Language)	.5		X	X	X
21st Century Communication, #1676 (ELA Elective)	1	X	X	X	X
Creative Writing, #1648 (Language)	.5	X	X	X	X
NEW Film Studies/IB Film Studies SL #1663 (ELA Elective)	1			X	X
Yearbook (ELA Elective) #1616	1	X	X	X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

English 9, #1620

Length: Two Semesters *Grades: 9*
Prerequisite: None *Credit: 1 English*
(Counts as English graduation credit)
NCAA Approved

The emphasis in English 9 promotes students' development of independent communication skills. Students will read and respond to a wide variety of narrative, informational, and persuasive texts, following the Common Core Standards, as well as use a range of thinking strategies to analyze, understand, and create effective texts of their own. Students will engage in collaborative, self-directed learning to analyze texts and research topics in order to demonstrate the individual ability to synthesize information and adapt their communication skills for specific purposes and audiences.

^*Accelerated English 9, #1646
Length: Two Semesters *Grades: 9*
Prerequisite: Teacher Recommendation, Student Baseline data, and Student Interest Survey will be considered *Credit: 1 English*
NCAA Approved

This course is designed for students whose academic needs justify an accelerated and in-depth curriculum and is recommended for students who intend to take IB English or AP Literature. Students should have a strong background in composition and written conventions, as well as a commitment to in-depth literary analysis, student facilitated discussion, extensive reading and individual research, oral presentation, and a more demanding homework load than is generally required in English 9. Students will have the opportunity to self-select texts and research topics in order to demonstrate the individual ability to synthesize information and adapt their communication skills for specific purposes and audiences. This course offers a comprehensive study of literacy concepts and substantial writing which will help to prepare students for college-level work.

English 10, #1623
Length: Two Semesters *Grades: 10*
Prerequisite: None *Credit: 1 English*
NCAA Approved

English 10 is a year-long course designed with both college-bound and career-bound students in mind. The focus is on the continued development of each student's reading, writing, speaking, listening, and writing skills that follow the Common Core Standards. Students will read and write in response to narrative texts, informational texts, mythology, literature, and historical fiction. Within each unit, students will write analytical, creative, argumentative, and researched essays, use technology for presentations, and refine speaking and listening skills to enhance their understanding of the human experience.

^*Accelerated English 10, #1647
Length: Two Semesters *Grades: 10*
Prerequisite: Successful completion of Accelerated English 9 or Teacher Recommendation, Student Baseline data, and Student Interest Survey will be considered Credit: 1 English
NCAA Approved

This reading and writing intensive course is designed to provide students with extensive experience and training in the study, interpretation, and analysis of various literary genres within American, British, and World Literature. Students will work on recognizing literary forms, techniques, and genres, as well as developing and sharpening their own writing skills. Students will hone critical thinking, reading, and speaking skills that they will need in upper level IB and AP coursework. A strong background in grammar and composition is necessary to complete individual research, extensive readings, in-depth literary analysis, and oral presentations. Students will demonstrate the ability to be exposed to literary analysis, comparison contrast, research, timed writing, and oral and written commentaries. Students should expect a demanding homework load.

^*Accelerated English 11, #1669
Length: Two Semesters *Grades: 11,12*
Prerequisite: Successful completion of Accelerated English 10 or Teacher Recommendation, Student Baseline data, and Student Interest Survey will be considered Credit: 1 Literature/Language English
NCAA Approved
This reading and writing intensive course continues in sophistication from Accelerated English 10 as the Common Core Standards address the need for students to be college and career ready. The college-bound reading course includes literature, non-fiction and fiction, varying from novels, short stories, poems, plays, a Shakespeare tragedy, science fiction, and the aspects of the human condition that prevail throughout the world. The process and practice of writing through informative, analytical, and argumentative essays are integrated with the study of literature while creative writing provides students with mentor texts to examine the author's craft. In addition, in-depth literary analysis, both in discussion and in writing, is emphasized. Oral presentations and 21st Century technology are integrated throughout the course. Students will be exposed to Advanced Placement practice exams and the study of literary terms to help prepare students for the AP exam during their senior year. Students should expect a demanding homework load.

^ *IB English HL Year 1 #1639

Length: Two Semesters *Grades: 11*
Prerequisites: Accelerated English 10 or English 10 or consent of instructor *Credit: 1 English*
NCAA Approved

^*IB English HL Year 2 #1640

Length: Two Semesters *Grades: 12*
Prerequisite: IB English Year 1 *Credit: 1 English*
NCAA Approved

The goal of the English IB course is for students to learn to communicate, both orally and in writing, in a variety of contexts. The course promotes a personal appreciation of the literature through studying works from other cultures that reflect an international perspective. Students will study and analyze a range of styles, genres, and forms that will create an awareness of and sensitivity to the world at large. Through a study of vocabulary and literary terms, students will express their ideas with clarity and understanding. They will demonstrate the ability to structure their arguments in a clear, coherent, and convincing way in both written and oral presentations. This course develops an appreciation of cultural knowledge of the student's own society and that of other societies in order to better understand his or her connection to the world through literature and writing.

^*Advanced Placement Literature and Composition, #1665

Length: Two Semesters *Grades: 12*
Prerequisite: A or B grade or better in previous Accelerated English or teacher recommendation. *Credit: 1 English*
NCAA Approved

This advanced literature course will engage students in careful reading and analysis of a challenging set of literary works from a range of genres including the novel, short story, poetry, and drama. The focus of the course will be on intensive reading and discussion of the literature and literacy criticism. Emphasis will be placed on thoughtful and cogent analysis of the readings using a variety of theoretical frameworks and devices. Students are expected to be active readers as they analyze and interpret literature.. This course will also include a writing component that focuses on expository, analytical, and argumentative writing about the literature through various essay formats. AP English is intended to provide students with an academic experience parallel to that of a college-level literature course in order to prepare students for the Advanced Placement Literature and Composition exam administered each May.

English 11 (Literature Focus), #1617

Length: One Semester *Grades: 11*
Prerequisite: English 10 *Credit: .5 Literature English*
NCAA Approved

This course continues in sophistication from English 10 with a focus on the Common Core Reading Standards. These standards address the need for students to be college and career ready. The reading in this course includes literature, non-fiction and fiction, varying novels, short stories poems, plays, and the fictionalized memoir/biography. Research will be stressed, as students examine historical documents to discover aspects of the human condition that prevail throughout the world. Oral presentations and 21st Century technology are integrated throughout the course.

English 12 (Literature Focus), #1613

Length: One Semester *Grades: 12*
Prerequisite: English 10 *Credit .5 Literature English.*
NCAA Approved

English 12 *Literature Focus* is the one of two of the final courses within the Common Core Standards Framework. This semester long course will focus on literature and includes reading and responding to both narrative and informational texts, short stories, poems, and plays, including a Shakespeare comedy, science fiction, and various theme related novels. This course focuses on the CCSS Literature Standards and will prepare students to be Career, College, and Community ready.

Graphic Novels (Literature Focus), #1625
Length: One Semester *Grades: 11,12*
Prerequisite: English 10 *Credit .5 Literature English*
NCAA Approved
This course fulfills an English literature half credit. Students in The Graphic Novel course will explore the medium as a mode of communicating story using the various texts as a way to acquire, practice, and master traditional and new literacies, including visual and critical media literacy. Through genre study in the framework of the workshop model, students will consider graphic novels as literature, analyze formal structure as it relates to content, trace the development of theme including gender, race, sexuality, justice, existentialism and heroism, and research the history and growth of the genre.. Students will look closely at the special effects created in sequential art narrative and further appreciate the medium by constructing a variety of graphic narratives both independently and collaboratively. Some of the graphic novels students will study include *Maus, Persepolis,* and *Watchman*

***Great Plays (Literature Focus), #1674**
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Literature English*
NCAA Approved

This course is available to 10th graders who are studying IB Theatre, as well as to 11th and 12th grade students. From page to stage, find out what makes a great play a great experience. This investigation of great theatrical literature looks at all components of the production process with an emphasis on understanding dramatic structure. Analysis from the audience's perspective looks at the difference between a great play, a great performance, and a great production. Theatre literature and history will be explored to determine what choices communicate best to live audience and how theatre is different from film and television. Through theme and character analysis and research, all the world's a stage: you will discover what makes a great play and why.

Literature for Change (Literature Focus), #1635
Length: One Semester *Grades: 11,12*
Prerequisite: English 10 *Credit .5 Literature English*
NCAA Approved

This course fulfills an English Literature half-credit. In **Literature for Change**, students will study literature which motivates toward social change. Texts such as *The Hate U Give, The Jungle, 1984,* and the poetry of Langston Hughes and Shane Koyczan will be read with a critical lens for elements which promote reflection. Students will analyze how the use of rhetoric and symbolism helps readers connect these pieces with modern events or cultures, allowing them to understand the author's proposed solution to a problem. A study of satire as a means to shine a light on our weaknesses and promote change will be a major part of this class. Students will choose their own pieces for a study on social change, culminating in projects involving using one's voice to motivate others

Music as Literature (Literature Focus), #1622
Length: One Semester *Grades: 11,12*
Prerequisite: English 10 *Credit .5 Literature English*
NCAA Approved

This course fulfills an English Literature half-credit. Music as Literature focuses on the analysis and evaluation of lyrics and how they function as text. Additionally, lyrics will be paired with literature of significance corresponding with the social movement of the given time period. Not unlike poetry, lyrics will be analyzed through the writer's use of voice, complexity of language, and social commentary. Furthermore, texts will be analyzed based on the intended and/or organic effect on the audience. This course will survey various genres and movements, including but not limited to the protest movement of the 1960s, the music of the Harlem Renaissance, the social commentary within 1990s rap and hip hop, the narrative of the musical, and the contemporary commentary on social injustice. Students will also have an opportunity to investigate, compare and contrast, and evaluate universal themes used by various artists and genres. Freedom of choice is a key component of this course, allowing students to connect to their own musical preferences while practicing analysis, citing textual evidence, tracking thematic similarities and differences, and being exposed to genres outside of their preferences. Students will explore the profound depths of the power of music and its connection to words while investigating the compelling effects on society.

NEW Sports Literature (Literature Focus), #1621
Length: One Semester *Grades: 11,12*
Prerequisite: English 10 *Credit .5 Literature Credit*
NCAA Approved

This course fulfills an English Literature half credit, and it is tailored to engage the competitive and eager. In Sports Literature, students will participate in a gamified classroom where they are placed into collaborative teams and take on challenges. Students will deconstruct a variety of sport-related texts to analyze and consider literary elements including characterization, setting, and point of view while examining language functions in different contexts. Students will participate in a collaborative environment while challenging themselves to think at a higher level. Additionally, students will explore the psychological need to compete and win while reading texts focused on thematic topics of survival, war, identity, self-acceptance, redemption, and belonging. Similar to the work of sports announcers, commentators, and journalists, this course is designed to promote connections with peers while appropriately debating controversial topics relevant in the media today.

NEW Mythology (Literature Focus), #1624
Length: One Semester *Grades: 11,12*
Prerequisite: English 10 *Credit .5 Literature English*
NCAA Approved

This course fulfills an English Literature Requirement. Mythology uses analysis and evaluation of a variety of cultural myths as the foundation of this course. From Homer's *The Odyssey* in Ancient Greece and *Arachne the Spinner* Rome through Egypt and the Norse gods to Early American legends and belief systems of the first settlers of Wisconsin, examine literature through the stories our civilizations were built on. Compare diverse world cultures to our own through contact with their creation stories, such as How the Crocodile Got Its Skin. Students will analyze the choices authors make that have impacted readers and other artists for thousands of years. Uncover the origins of words you use daily. This course will incorporate a study of history as it examines ancient times and their effect on our modern world and will increase appreciation for Literature and art through an understanding of the mythological allusions used widely. Compare and contrast the stories that civilizations built their beliefs on and how those ideas traveled around the world, culminating right here in our backyard.

English 11 (Language Focus), #1610
Length: One Semesters *Grades: 11*
Prerequisite: English 10 *Credit: .5 Language English*
NCAA Approved

This course continues in sophistication from English 10 with a focus on the Common Core Language Standards. These standards address the need for students to be college and career ready. The writing, speaking and listening in this course include writing focused on literature, non-fiction and fiction, varying novels, short stories poems, plays, and the fictionalized memoir/biography. Research writing will be stressed, as students examine historical documents to discover aspects of the human condition that prevail throughout the world. This course is the companion to English 11 Literature Focus. Oral presentations and 21st Century technology are integrated throughout the course.

English 12 (Language Focus), #1612
Length: One Semesters *Grades: 12*
Prerequisite: English 10 *Credit .5 Language English.*
NCAA Approved

English 12 L*anguage Focus* is one of the two final course within the Common Core Standards Framework. This semester long course will focus on language (writing, speaking, and listening) and includes responding to writing various essay forms, including informative, explanatory, comparison contrast, literary analysis, argumentative, and creating writing. In order to understand how society's values are influenced by events of the time period, students also will examine historical documents. Analysis, technology, and collaboration including speaking and listening, are major components of this class

Group Problem Solving, (Language Focus) #1643

Length: One Semester - Language *Grades: 12*
Prerequisite: Although this course meets high school English credit requirements, it is not accepted by 4 year colleges as an English credit. *Credit: .5 Language English*

This course is designed to provide formal and informal speaking and listening experiences primarily within the context of a small group setting although some individual speech work will be required. Through the study of oral communication, group interaction, problem solving, listening, and more formal debate activities, the student will learn how to effectively relate ideas to others. Projects involving group process, leadership, cooperative investigation, debate, problem solving, and listening will be included. This course will stress the need for the speaker to take responsibility for all his/her verbal and non-verbal communication.

Intro to Technical Reading and Writing (Language Focus) #1631

Length: 1 Semester *Grades:10,11,12*
Prerequisite: None *Credit: .5 Language English*

This course teaches the writing process. Through a variety of reading and writing, you will learn to distinguish between fact and opinion; draw logical inferences or conclusions; paraphrase and/or summarize accurately; evaluate sources and information for accuracy and credibility. At the end of this semester course you will be able to properly write business correspondences such as e-mail, application letters, business letters for a variety of audiences. Additionally, you will be able to write expository documents free from bias and write documents that are unified and coherent.

**This course is geared toward students who plan to attend a two-year technical college after high school. Upon successful completion of this course, students will earn 3 credits of Advanced Standing placement with LTC.

Journalism (Language Focus), #1609

Length: One Semester - Language *Grades: 11,12*
Prerequisite: English 10 *Credit: .5 Language English*
NCAA Approved

This course fulfills an English language half credit**,** offering a comprehensive look at various forms of journalism, from sports coverage to natural disasters, from celebrity profiles to hard news. Students will practice reading sample articles with a critical lens, giving an opportunity to see biases in the articles. They'll practice writing journalistic pieces for both entertainment and information, which will provide each student with an understanding of what to look for when reading media coverage. Photojournalism will be covered during the course, as well, as a meaningful form of storytelling. Photojournalism now works hand-in-hand with news coverage, and publishers are seeking reporters who have skills in both writing and photography. Students will also research and explore social media's impact on American citizens in terms of the dissemination of news and information.

Spoken Word (Language Focus), #1605

Length: One Semesters *Grades: 11,12*
Prerequisite: English 10 *Credit .5 Language English.*
NCAA Approved

Spoken Word: The Power of Poetry course fulfills a English language half credit. This course invites students to explore language and discover what it has to offer them. Through this course, students will encounter modern styles of poetry such as slam poetry, visual poetry, digital poetry, guerilla poetry, concrete poetry, video poetry, haptic poetry, and much more! By honing their skills in oral interpretation of literature by analyzing text, evaluating rhetoric, and point of view, students will be able to write and perform spoken word poetry. Students will get the opportunity to discover the power of words and discover all of its possibilities by learning strategic communication skills and practicing in collaborative discussions.

^Oral/Interpersonal Communication (Language Focus) #1615
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Language English*

This course provides students with the skills to develop speaking, verbal and nonverbal communication, and effective listening skills. Students will gain 21st Century learning skills through project based learning, in which students will self-select a community service-learning project to focus on for the course. Help make a change and let your voice be heard! This course is designed for college bound students.

^*Public Speaking (Language Focus), #1672
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Language English*
NCAA Approved

Public Speaking is a practical course designed to help students acquire self-confidence and poise while developing effective oral communication skills. Skills emphasized are active listening and the research, organization, delivery, and evaluation required in formal speaking. Six required speeches use different formats and criteria for presentation. These speeches include two informational, two persuasive, one demonstration, and one oral interpretation. This course is helpful for students who expect to enter the AP or IB programs. Public Speaking is articulated with LTC, and students who earn an A or B can receive credit.

^*Written Communications (Language Focus), #1666
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Language English*
NCAA Approved

Working on the basic principle of the writing lab, this course will involve the study and application of the various writing techniques necessary for effective written communication at the college level. Specifically, this course will formally emphasize such rhetorical concepts as argumentation, literary analysis, comparison contrast and various forms of the research paper including APA and MLA formats. This course is designed for college-bound students.

21st Century Communications (English Elective), #1676
Length: Two Semesters *Grade: 9,10,11,12*
Prerequisite: None *Credit: 1 Elective*

Today around seven-in-ten Americans use social media to connect with one another, engage with news content, share information and entertain themselves. Do you have a Instagram account? What about Twitter? Snapchat? Facebook? What does your social media usage communicate about you? What's your "brand?" Learning to interact and communicate on various social media platforms is crucial in order to survive and thrive in this age of digital communication. In addition to using social media, 21st Century Communications students study and create film in a variety of genres. Additionally, students will have an opportunity to contribute to the production of WLHS, Lincoln High School's on line news channel. Twenty-first Century Communications is one of the most popular classes at Lincoln High School due to the stimulating and engaging nature of learning to navigate and create in the digital world and connect globally with other culture

Creative Writing, #1648
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Language English*
NCAA Approved

"In order to write more effectively, one must practice writing." The major objective of this class is to provide each student with a wide variety of writing experiences in order to improve and enjoy writing. Some of the writing experiences may include the creation of a short story, a poetry project, a play, and other independent writing projects. The course also involves a study of the tools and techniques of creative expression along with various professional creative writing as models of effective writing. Students who take this course must be serious about their writing and creativity.

NEW Film Studies/IB Film Studies SL (English Elective Literature Focus) #1663

Length: Two Semesters *Grades: 11,12*
Prerequisite: none *Credit: 1 Elective*
Although this course meets LHS English credit requirements,
it is not accepted by 4-year colleges as an English credit.

This course explores multiple aspects of film and develops students' skills so that they become adept in both interpreting and making film texts. IB Film Studies promotes an appreciation and understanding of film as a complex art form, an ability to formulate stories and ideas in film terms, the practical and technical skills of production, critical evaluation of film productions by the student and by others, and a knowledge of film-making traditions in more than one country.

Yearbook #1616

Length: Two Semesters *Grades: 9, 10,11,12*
Prerequisite: None *Credit: 1 Elective*

This class may be taken multiple years for credit.

In this course students will learn writing skills, editing, business management skills, layout design, computer applications, graphic design, and photography contributing to the composition of the yearbook publication. Journalism ethics are taught and implied through interviewing, reporting, writing, and editing to produce the school's yearbook. Leadership opportunities are offered in a variety of editorial and management positions. Students must be enrolled for both semesters. Additional Time commitment outside of class is expected to ensure successful publication.

World Language

Recent world events have put a spotlight on the need for speakers of world languages. Globalization of the American and world economies has made people with language and cultural skills essential to the United States' continued prosperity and national security.

Language study in MPSD focuses on communication. Students have multiple opportunities at all levels to engage in conversations, to listen, read and view authentic texts, and to refine their language proficiency by doing presentations in the language being studied. The cultures of the languages being studied are investigated. Students develop a sense of global awareness, cultural skills and the ability to consider multiple perspectives. Each course is also designed to provide opportunities to develop understanding of the supporting standards of Connections, Comparisons and Communities.

Many universities and colleges have a world language entrance requirement. In addition, many university majors have world language requirements for graduation. Starting a language at MPSD and pursuing it for as long as possible can save a student time and money at the university. Many schools within the UW system offer the possibility of retroactive university credit for world language courses taken in high school. Students earn free university credits following a placement test and successful completion of one course at the university level. In addition, students in their 5th and 6th years of French or Spanish language study in MPSD also have the option to enroll in the UWGB College Credit in High School (CCIHS) dual credit program. Student in the advanced French and Spanish classes can earn college credit and high school credit through the program.

Finally, skills in world languages and cultures open doors to most careers in the 21st century. Thomas Friedman, *New York Times* columnist, has coined the phrase "the world is flat." American students are already competing for jobs with peers around the world. Most American companies do business internationally. They are hiring an international workforce. American students must be prepared with international skills if they are to be competitive in this international job market. MPSD students have an excellent opportunity to begin their preparation for this international job market through courses offered by the World Language Department.

World Languages Department Enduring Understandings		
Communication * One uses communication skills to engage in conversation, interpret spoken and written materials from other cultures, and present concepts in a language other than their own.		
Culture * New perspectives are gained through considerations of culture, language, history and contemporary status. They allow us to develop empathy towards others and tolerance for differences as responsible global citizens. .		
Connections	**Comparisons**	**Communities**
As students increase their proficiency and advance in another language, they acquire critical thinking skills which empower them to gain knowledge in other disciplines and sensitivity to a variety of viewpoints.	Learning another language and the cultures where that language is used enhances our understanding of our own language and culture. Languages are systems of grammar, vocabulary and syntax that can be acquired through perseverance, motivation and time. Exact translations between languages are impossible; however, equivalent meanings can generally be found.	Language and cultural knowledge provide skills for interacting within diverse communities. Knowing a foreign language opens doors to a greater variety of career options, increased lifelong learning opportunities, and enhanced leisure activities.

UW-GREEN BAY COLLEGE CREDIT IN HIGH SCHOOL (CCIHS)

The UW-Green Bay College Credit in High School (CCIHS) program is a concurrent enrollment program where **students can earn both high school AND college credit for their class.** In other words, because it is a dual credit program, not only do students earn credit on their Lincoln High School transcript, but they can also earn credits on a UW-Green Bay transcript. These college credits can often be transferred to other UW-System schools and many out of state or private colleges and universities (dependent upon their credit transfer policies).

Courses are taught by UW-Green Bay approved high school instructors and are aligned to the content, learning outcomes and rigor of UW-Green Bay classes. The courses for dual credit that are taught at Lincoln High School, by LHS instructors, are:

Lincoln High School courses	UWGB course equivalent & credits
IB French / Adv. French Yr. 1 #1321	**French 202 - 3 credits** * 11 additional credits (retroactive credits) can be earned by receiving a B or better in the year-long LHS course
IB French / Adv. French Yr. 2, #1322	**French 202 - 3 credits** If a student did not take IB French / Adv. French Yr. 1 for college credit, the student may choose to take IB French / Adv. French Yr. 2 for French 202 (for 3 credits and up to 11 retroactive credits). OR **French 222 - 3 credits** Students who completed IB French / Adv. French Yr. 1 and earned college credit for French 202, can register for French 222 for their IB French / Adv. French Yr. 2 year-long course.
IB Spanish / Adv. Spanish Yr. 1 #1363	**Spanish 202 - 3 credits** * 11 additional credits (retroactive credits) can be earned by receiving a B or better in the year-long LHS course
IB Spanish / Adv. Spanish Yr. 2 #1364	**Spanish 202 - 3 credits** If a student did not take IB Spanish / Adv. Spanish Yr. 1 for college credit, the student may choose to take IB Spanish / Adv. Spanish Yr. 2 for Spanish 202 (for 3 credits and up to 11 retroactive credits). OR **Spanish 222 - 3 credits** Students who completed IB Spanish / Adv. Spanish Yr. 1 and earned college credit for Spanish 202, can register for Spanish 222 for their IB Spanish / Adv. Spanish Yr. 2 year-long course.

What are retroactive credits?

- Retroactive credits are credits that are awarded for world language classes. If you are successful at the 202 level of your world language class, you will have demonstrated the skills and knowledge for college 101, 102 and 201 level classes.
- Retroactive credits do not have a grade and therefore, do not affect your grade point average. (However, for the 202 level course you will earn a grade on your UWGB transcript that will be a part of your college grade point average.)
- You do not pay for retroactive credits – you only pay for the 202 level CCIHS course in which you enroll.

Complete with a B or Better	**French 202**	**Spanish 202**
Receive 11 retroactive credits for:	French 101 – 4 credits French 102 – 4 credits French 201 – 3 credits	Spanish 101 – 4 credits Spanish 102 – 4 credits Spanish 201 – 3 credits
Complete with a BC or C	**French 202**	**Spanish 202**
Receive 5.5 retroactive credits for:	French 101 – 2 credits French 102 – 2 credits French 201 – 1.5 credits	Spanish 101 – 2 credits Spanish 102 – 2 credits Spanish 201 – 1.5 credits

What is the cost for the college credit option?

During the 2018-2019 school year, the cost for enrolling in French 202 or Spanish 202 as a 3 credit CCIHS course at Lincoln High School is:

- $300 ($100 per college credit)

(The same course if taken at UW-Green Bay is $984.78.)

If I register for the IB/Advanced level language classes, do I need to take them for college credit?

No. It is your decision whether or not you would like to take the course for college credit. You can choose to take the class for high school credit only and not pay for the college credit option.

What are the benefits of taking the course for college credit?

Benefits of the CCIHS program include:

- Get a head start on college, by earning college credit on a UWGB transcript. (Your grade in the year-long language course at Lincoln will be converted into a grade on your UWGB transcript and is included in your college grade point average.)
- Save money on tuition (save nearly $700 by taking the course at Lincoln instead of taking the equivalent 202 course at UWGB)
- Accelerate the completion of a college degree
- Experience college rigor in high school
- Register earlier than your peers for second semester college classes when you begin college

What should I do if I would like to enroll in a class for college credit?

- Register for the appropriate level of language class for which you have met the prerequisites:
  - IB French / Adv. French Yr. 1
  - IB French / Adv. French Yr. 2
  - IB Spanish / Adv. Spanish Yr. 1
  - IB Spanish / Adv. Spanish Yr. 2
- In your IB / Advanced language class in the fall, you may register for the CCIHS program. (You will receive further information regarding registration and fees from your instructor in the fall. You may take the course for college credit as a junior and/or senior.)
- If you enroll in the IB / Advanced Yr. 1 language course for college credit as a junior, you may choose to take the year 2 course for additional college credits as a senior. (Additional information will be shared with you once you begin your language course.)

World Language

Course	Credit	9	10	11	12
French 1, #1310	1	X	X	X	X
French 2, #1311	1	X	X	X	X
^French 3, #1312	1	X	X	X	X
^French 4, #1313	1		X	X	X
^*IB French/Adv French Year 1, #1321	1			X	X
^*IB French/Adv French Year 2, #1322	1				X
German 1, #1330	1	X	X	X	X
German 2, #1331	1		X	X	X
^German 3, #1332	1			X	X
^German 4, #1333	1				X
^*IB German Year 1, #1340	1			X	X
^*IB German Year 2, #1341	1				X
Spanish1, #1350	1	X	X	X	X
Spanish 2, #1351	1	X	X	X	X
^Spanish 3, #1352	1	X	X	X	X
^Spanish 4, #1353	1		X	X	X
^*IB Spanish/Adv Spanish Year 1, #1363	1			X	X
^*IB Spanish/Adv Spanish Year 2, #1364	1				X
French, German, Spanish Live					
#1319, #1338, #1359	.5	X	X	X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

*Sophomores studying French or Spanish who intend to do the full IB program, <u>and who are not currently in a level 4 class</u>, must contact their school counselor for assistance in scheduling language courses.

French 1, #1310
Length: Two Semesters — *Grades: 9,10,11,12*
Prerequisite: None — *Credit: 1 Elective*
NCAA Approved

Discover the language, culture and great cities of the French-speaking world! Globally, French is spoken in over 40 countries and is used in the areas of diplomacy, research, the arts, education, business, and technology. In your study of French you will learn to communicate with other students about daily life, sports, your interests, and other activities. Given that French is spoken on five continents, this language will open the door to many career opportunities.

French 2, #1311
Length: Two Semesters — *Grades: 9,10,11,12*
Pre-Requisite: French 1 — *Credit: 1 Elective*
NCAA Approved

In French 2, you will have the opportunity to continue your journey in French. You'll learn more vocabulary and structures to assist you in communicating with speakers of French with a focus on *la vie française* including foods, home, and other aspects of French life. You'll continue to explore the French speaking world as you develop your cultural knowledge and abilities. You'll continue to consider ways in which French can enhance your career opportunities.

^French 3, #1312
Length: Two Semesters — *Grades: 9,10,11,12*
Pre-Requisite: French 1& 2 — *Credit: 1 Elective*
NCAA Approved

In French 3, you'll expand on your repertoire of tenses so that you can express yourself in most authentic contexts in a French speaking world. You will use your French as you pack your bags and "travel" on a simulated trip to Paris. You will spend the school year learning how to communicate while traveling abroad and diving into the culture of Paris. A special unit on French Impressionism usually culminates with a field trip to the Chicago Art Institute.

^French 4, #1313
Length: Two Semesters *Grades: 10,11,12*
Pre-Requisite: French 1,2,3 *Credit: 1 Elective*
NCAA Approved

Grab your passport and say, *"Au revoir!"* to English as you continue to improve your French communication skills. The class will use French as a vehicle for communicating and learning about the culture, literature and art of many French speaking countries. Through an introduction to literature and discussions, you will gain a deeper insight into the French language as well as the people who speak French.

^*IB French/Adv. French Year 1, #1321
Length: Two Semesters *Grades: 11*
(Prerequisites: French 1,2,3,4) *Credit: 1 Elective*
NCAA Approved

^*IB French/Adv. French Year 2, #1322
Length: Two Semesters *Grades: 12*
Prerequisite: IB French Year 1/Adv. French Year 1 *Credit: 1 Elective*
NCAA Approved

These classes are an integral part of the International Baccalaureate Diploma program. Students need to complete the full scope of language courses, levels 1-4 to be enrolled in this course of study. An emphasis is placed on international relations, with subtopics such as diversity, tolerance, technology, environment, global politics, art influences, immigration and migration, etc. At the termination of this course of study, students will have the necessary skills to test for the IB diploma.

The courses are designed to prepare students for success at the college level, study abroad, future careers or everyday situations requiring the use of French. Students may also choose to test in IB French or enroll in the dual credit program through UW-Green Bay. Each fall students will be provided with information on these opportunities.

Options for students in the advanced French sequence:

IB French / Advanced French Year 1	IB French / Advanced French Year 2
1. Take the course for high school credit only	1. Take the course for high school credit only
2. Apply for CCIHS (UWGB dual credit program) and register for French 202	2. Apply for CCIHS (UWGB dual credit program) and register for French 202 if they did not take the IB French / Advanced French Yr. 1 course for college credit. OR Register for French 222 if they previously completed French 202 during IB French / Advanced French Yr. 1.
3. Test for IB French SL (with instructor approval)	3. Test for IB French SL or HL

German 1, #1330
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: None *Credit: 1 Elective*
NCAA Approved

The four skill areas of understanding, speaking, and writing are taught, with special emphasis on understanding and speaking. The basic grammatical structure of German and its vocabulary are learned through practice and analysis of commonly used phrases presented in the textbook. All students of German come in contact with German culture through films, food, booklets, magazines, songs and games, and actual participation like role-playing and celebration of customs and festivals.

German 2, #1331
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: German 1 *Credit: 1 Elective*
NCAA Approved

Building on the framework of German 1, German 2 students will increase their ability to understand German and will find many opportunities to express themselves in spoken German on everyday topics. Another important contribution of this course is an understanding of the way of life and cultural heritage of the German-speaking people through films, food, photos, booklets, magazines, songs and games, and actual participation like cooking, celebration of customs and festivals.

^German 3, #1332
Length: Two Semesters *Grades: 11,12*
Prerequisite: German 1 and 2 *Credit: 1 Elective*
NCAA Approved

A thorough review of German 1 and 2 is undertaken for the benefit of all students. The goal of German 3 is the improvement in listening and speaking, grammar, reading and writing. Short stories, essays on current topics and excerpts from various sources are read in class followed by discussion. Writing includes brief narratives and short paragraphs on any topic. Students come in contact with German culture through films, food, photos, booklets, magazines, songs and games, cooking, and celebration of customs and festivals.

^German 4, #1333
Length: Two Semesters *Grades: 12*
Prerequisite: German 1,2, 3 *Credit: 1 Elective*
NCAA Approved

This class includes a thorough review of German 1-3. The emphasis of this course is the refinement of understanding, speaking, reading and writing standard German. Various short stories of literary merit are read. Writing and internet projects are done. Writing includes brief narratives and short paragraphs on diverse topics. Students come in contact with German culture through films, photos, booklets and magazines. If your goal is to communicate in German, this course will help you reach it by using the language.

^*IB German Year 1, #1340
Length: Two Semesters *Grades: 11, 12*
Prerequisites: German 1,2 *Credit: 1 Elective*
NCAA Approved

^*IB German Year 2, #1341
Length: Two Semesters *Grades: 12*
Prerequisite: IB German Year 1 *Credit: 1 Elective*
NCAA Approved

This course is an integral part of the International Baccalaureate Diploma Program. An emphasis is placed on international relations, with subtopics such as diversity, tolerance, technology, environment, global politics, art influences, immigration and migration, etc. At the termination of this course of study, students will have the necessary skills to test for the IB diploma.

Spanish 1, #1350
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: None *Credit: 1 Elective*
NCAA Approved

The ability to communicate by using the Spanish language is stressed. Cultural aspects are learned through comparing different areas of the Spanish-speaking world with videos and films. Music, food, and celebrating customs and festivals augment the use of the grammatical principles learned.

Spanish 2, #1351
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: Spanish 1 *Credit: 1 Elective*
NCAA Approved

Building on the framework of Spanish 1, different cultures of Spanish-speaking peoples are introduced. Creativity and usage of previously learned materials are stressed as new vocabulary and communication are added.

^Spanish 3, #1352
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: Spanish 1 & 2 *Credit: 1 Elective*
NCAA Approved

This course emphasizes the improvement of comprehension and speaking while introducing new grammatical structures and practical vocabulary. The cultural contributions of the Spanish-speaking world are explored through student projects and presentations.

^Spanish 4, #1353
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Spanish 1,2,3 *Credit: 1 Elective*
NCAA Approved

Improving Spanish communication skills and knowledge of the Spanish-speaking world is the focus of this course. Spanish will be used as a vehicle for communicating and learning about the culture, literature and art of many Spanish-speaking countries. Themes in this course include identity, customs and traditions, cultural diversity, social relationships, and global issues. Through discussions, cultural simulations, music, film, and interactions with Spanish-speakers, students will gain deeper insight into the Spanish language as well as the people who speak Spanish.

^*IB Spanish / Adv. Spanish Yr. 1, #1363
Length: Two Semesters *Grades: 11, 12*
Prerequisites: Spanish 1,2,3,4 *Credit: 1 Elective*
NCAA Approved

^*IB Spanish / Adv. Spanish Yr. 2, #1364
Length: Two Semesters *Grades: 12*
Prerequisite: IB Spanish/Adv. Spanish Yr. 1 *Credit: 1 Elective*
NCAA Approved

Upon completion of Spanish 4, students may enter the advanced Spanish program, which has an emphasis on increasing proficiency in Spanish. The IB Spanish /Adv. Spanish courses are advanced level courses that run on a two year cycle with alternating curriculum. The curriculum combines IB themes and topics, cultural simulations, music exploration, literature, and an advanced grammar focus. All grammar concepts taught in previous levels are reviewed and refined while students are immersed in language through lessons, which incorporate the Standards for Learning World Languages (Communication, Culture, Connections, Comparisons & Communities). An emphasis is also placed on the IB themes: Identities, Experiences, Human Ingenuity, Social Organization, and Sharing the Planet. The program includes opportunities for conversation, storytelling, journal writing, cooperative group work, cultural experiences and assessments in the three modes of communication (interpretive, interpersonal and

presentational). Students are exposed to a variety of authentic texts and produce work in a variety of communicative contexts. Students may also have opportunities to use their communication skills outside of class through connections with other students, the local community and/or cultural exchanges with Spanish-speaking students in another part of the world. The course is conducted mainly in Spanish.

During each course, a variety of films, music and literature (including at least one full length novel per year) are also studied. In addition, during each cycle there is special emphasis on different cultures around the Spanish-speaking world (Odd graduation years = South America & the Caribbean; Even graduation years = Spain, Mexico, & Central America)

The courses are designed to prepare students for success at the college level, study abroad, future careers or everyday situations requiring the use of Spanish. Students may also choose to test in IB Spanish or enroll in the dual credit program through UW-Green Bay. Each fall students will be provided with information on these opportunities.

Options for students in the advanced Spanish sequence:

IB Spanish / Advanced Spanish Year 1	IB Spanish / Advanced Spanish Year 2
1.Take the course for high school credit only	1.Take the course for high school credit only
2. Apply for CCIHS (UWGB dual credit program) and register for Spanish 202	2. Apply for CCIHS (UWGB dual credit program) and register for Spanish 202 if they did not take the IB Spanish / Advanced Spanish Yr. 1 course for college credit. OR Register for Spanish 222 if they previously completed Spanish 202 during IB Spanish / Advanced Spanish Yr. 1.
3. Test for IB Spanish SL (with instructor approval)	3.Test for IB Spanish SL or HL

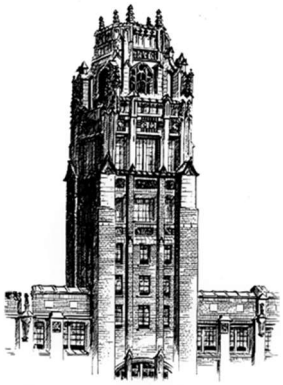
French Live
German Live
Spanish Live
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: Summer Abroad, *Credit: .5 Elective*
Student acceptance dependent upon application and interview process.

Three summer courses of study abroad, with .5 credit being awarded to successful participants. When enrollment and instructor availability permit, these courses are offered to students of French, German, and Spanish and are the culmination of a linguistic and cultural exchange with our counterparts abroad. The expectations of each course are high, with rigorous preparation, participation, and self-assessment.

(The courses are taught and accompanied by members of our World Language Department.) The experience features: 1) Authentic research to acclimate each student in the cultural and historical facets of foreign travel, 2) Practice in real-life communicative situations, 3) Research and written description of Wisconsin heritage for the purpose of valid cultural exchange, 4) Extended home-stay experience with host-family activities and in-school class attendance, and 5) Self-reflection gains of in cultural awareness and language acquisition.

IB @ Lincoln High School

IBelieve. **IB**elong. **IB**ecome.

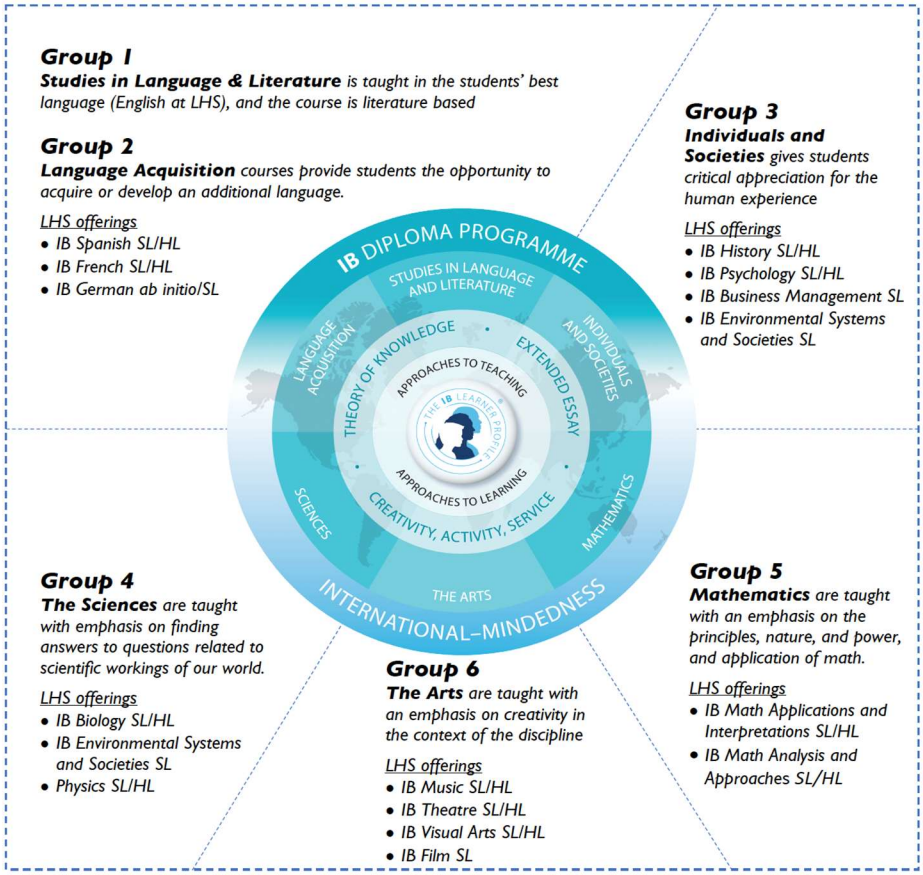


What is the IB?

The International Baccalaureate (IB) Diploma Program (DP) is a world-renowned comprehensive assessed course of study for students aged 16-19 (juniors and seniors). The IB DP encourages both personal and academic achievement, challenging students to excel in their studies and in their personal development.

Highly regarded by universities, the International Baccalaureate Program combines the study of six subjects – three at Higher Level, and three at Standard Level – along with Theory of Knowledge (TOK), Creativity, Activity, and Service (CAS) and an Extended Essay (EE). Students may also complete individual classes as Course Candidates.

It encourages intellectual curiosity and an increased level of independent learning with the goal of creating students across the world who are active, compassionate and lifelong learners.



SL – Standard Level HL – Higher Level * Trans-disciplinary subject

Diploma Programme

In addition to the six areas of study, the program has three core requirements that are included to broaden the educational experience and challenge students to apply their knowledge and understanding:

- ***The extended essay*** is an independent, self-directed piece of research, finishing with a 4,000-word paper.
- ***Theory of knowledge*** asks students to reflect on the nature of knowledge and on how we know what we claim to know.
- ***Creativity, activity, service*** requires that students are involved in activities and projects related to those three concepts.

IB Program Coordinator
Rachael George
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920.663.9667

Program Year 1		Program Year 2		Program Year 1		Program Year 2	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL
IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*
IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB History: European HL	IB History: European HL	IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB History: European HL	IB History: European HL
IB Biology or Physics HL	IB Biology or Physics HL	IB Biology or Physics HL	IB Biology or Physics HL	IB Environ. Systems & Societies SL	IB Environ. Systems & Societies SL	Elective	Elective
IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL
IB Theatre SL or IB Visual Arts SL	IB Theatre SL or IB Visual Arts SL	IB Theatre SL or IB Visual Arts SL	IB Theatre SL or IB Visual Arts SL	IB Visual Arts HL	IB Visual Arts HL	IB Visual Arts HL	IB Visual Arts HL
Elective	Elective	Elective	Elective	Elective	Elective	Elective	Elective

Sample 3: The Musician Example **Sample 4: The Performer Example**

Program Year 1		Program Year 2		Program Year 1		Program Year 2	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL
IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*
IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB History: European HL	IB History: European HL	IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB History: European HL	IB History: European HL
Band/Choir/ Orchestra	Band/Choir/ Orchestra	Band/Choir/ Orchestra	Band/Choir/ Orchestra	HL	HL	HL	HL
Elective	Elective	IB Environ. Systems& Societies SL	IB Environ. Systems& Societies SL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL
IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Environ. Systems & Societies SL	IB Environ. Systems & Societies SL	Elective	Elective
IB Music SL/HL	IB Music SL/HL	IB Music SL/HL	IB Music SL/HL	Elective	Elective	Elective	Elective

Sample 5: The Social Scientist Example **Sample 6: The Scientist Example**

Program Year 1		Program Year 2		Program Year 1		Program Year 2	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL
IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*
IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB History: European HL	IB History: European HL	IB Psychology SL/HL	IB Psychology SL/HL	IB Psychology SL/HL	IB Psychology SL/HL
IB Environ. Systems & Societies SL	IB Environ. Systems & Societies SL	Elective	Elective	IB Biology or Physics SL/HL	IB Biology or Physics SL/HL	IB Biology or Physics SL/HL	IB Biology or Physics SL/HL
IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL
IB Psychology HL	IB Psychology HL	IB Psychology HL	IB Psychology HL	IB Biology or Physics HL	IB Biology or Physics HL	IB Biology or Physics HL	IB Biology or Physics HL
Elective	Elective	Elective	Elective	Elective	Elective	Elective	Elective

Sample 7: The Mathematician Example **Sample 8: The Linguist/International Relations Example**

Program Year 1		Program Year 2		Program Year 1		Program Year 2	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL	IB Lang A: Literature HL
IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*	IB/Adv Lang BSL/HL*
IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB Business SL	IB Business SL	IB Lang BSL*	IB Lang BSL*	IB Lang BSL*	IB Lang BSL*
IB Biology or Physics HL	IB Biology or Physics HL	IB Biology or Physics HL	IB Biology or Physics HL	IB History: Modern World SL/HL	IB History: Modern World SL/HL	IB History: European HL	IB History: European HL
IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Environ. Systems & Societies SL	IB Environ. Systems & Societies SL	Elective	Elective
Elective	Elective	Elective	Elective	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL	IB Math SL/HL
Elective	Elective	Elective	Elective	Elective	Elective	Elective	Elective

* Spanish, French or German Grey-filled = testing semester

Lincoln High School strongly recommends that each of the six groups be a part of a student's Diploma Program experience. However, we realize this may not fit in a student's schedule or career plans. IB is very flexible and the IB coordinator and school counselors will work to create a customized schedule to fit the needs of each student.

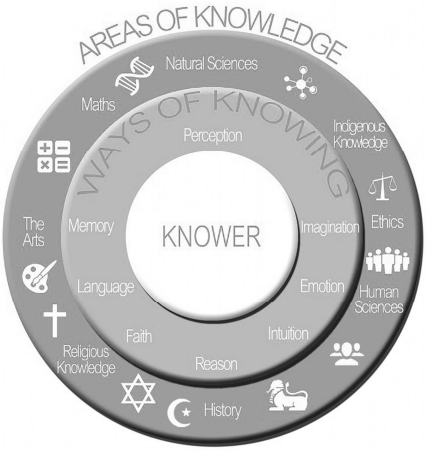
The IB Diploma Core

Made up of three required components, the DP core aims to broaden students' educational experience and challenge

them to apply their knowledge and skills.

Theory of Knowledge

Theory of knowledge (ToK) is all about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. The overall aim of ToK is to encourage students to formulate answers to the question "how do you know?" in a variety of contexts, and to see the value of that question.



ToK students:

- make connections between a critical approach to the construction of knowledge, the academic disciplines and the wider world
- develop an awareness of how individuals and communities construct knowledge and how this is critically examined
- develop an interest in the diversity and richness of cultural perspectives and an awareness of personal and ideological assumptions
- critically reflect on their own beliefs and assumptions, leading to more thoughtful, responsible and purposeful lives
- understand that knowledge brings responsibility, which leads to commitment and action.

Creativity, Activity, Service

CAS is intended to be a collection of enjoyable and challenging experiences determined by students to extend their abilities. The CAS program formally begins at the start of the DP and continues regularly for at least 18 months with a balance between creativity, activity and service.
Through CAS experiences, students are to achieve the following **learning outcomes**.

1. Identify their strengths and develop areas for personal growth.
2. Demonstrate that they have undertaken challenges and developed new skills in the process.
3. Demonstrate how to initiate and plan a CAS experience.
4. Show commitment to and perseverance in their CAS experiences.
5. Demonstrate the skills and recognize the benefits of working collaboratively.
6. Demonstrate engagement with issues of global significance.
7. Recognize and consider the ethics of choices and actions.

Extended Essay

The extended essay is a compulsory, externally assessed piece of independent research into a topic chosen by the student and presented as a formal piece of academic writing. The extended essay is intended to promote high-level research and writing skills, intellectual discovery and creativity while engaging students in personal research. This leads to a major piece of formally presented, structured writing of up to 4,000 words in which ideas and findings are communicated in a reasoned, coherent and appropriate manner. Students are guided through the process of research and writing by an assigned supervisor (a teacher in the school).

Example Research Questions:

- What is the relationship between the length of an exhaust pipe and the frequency of the sound it emits?
- Are commercially available antibacterial cleaning agents effective at controlling the growth of *E. coli* on nutrient agar under laboratory conditions?

What is the role and the significance of dance in *Pride and Prejudice* and *Emma*?

Studies in Language and Literature (Group 1)

^*IB Literature HL Year 1 #1639
Length: Two Semesters *Grades: 11*
Prerequisite: none, however Accel. Eng. 10 or discussion with instructor recommended *Credit: 1 English*
NCAA Approved

^*IB Literature HL Year 2 #1640
Length: Two Semesters *Grades: 12*
Prerequisite: IB English Year 1 *Credit: 1 English*
NCAA Approved

The goal of the English IB course is for students to learn to communicate, both orally and in writing, in a variety of contexts. The course promotes a personal appreciation of the literature through studying works from other cultures that reflect an international perspective. Students will study and analyze a range of styles, genres, and forms that will create an awareness of and sensitivity to the world at large. Through a study of vocabulary and literary terms, students will express their ideas with clarity and understanding. They will demonstrate the ability to structure their arguments in a clear, coherent, and convincing way in both written and oral presentations. This course develops an appreciation of cultural knowledge of the student's own society and that of other societies in order to better understand his or her connection to the world through literature and writing.

Language Acquisition (Group 2)

(Students who have never taken a language should consult the coordinator to discuss options)

^*IB French / Adv. French Yr. 1, #1321
Length: Two Semesters *Grades: 11, 12*
Prerequisites: French 1,2,3,4 or Teacher Recommendation *Credit: 1 Elective*
NCAA Approved

^*IB French / Adv. French Yr. 2, #1322
Length: Two Semesters *Grades: 12*
Prerequisite: IB French / Adv. French Yr. 1 *Credit: 1 Elective*
NCAA Approved

^*IB German SL/HL Year 1 #1340
Length: Two Semesters *Grades: 11*
Prerequisites: German 1,2,3,4 or Teacher Recommendation *Credit: 1 Elective*
NCAA Approved

^*IB German SL/HL Year 2 #1341
Length: Two Semesters *Grades: 12*
Prerequisite: IB German Year 1 *Credit: 1 Elective*
NCAA Approved

^*IB Spanish / Adv. Spanish Yr. 1, #1363
Length: Two Semesters *Grades: 11, 12*
Prerequisites: Spanish 1,2,3,4 or Teacher Recommendation *Credit: 1 Elective*
NCAA Approved

^*IB Spanish / Adv. Spanish Yr. 2, #1364
Length: Two Semesters *Grades: 12*
Prerequisite: IB Spanish/Adv. Spanish Yr. 1 *Credit: 1 Elective*
NCAA Approved

Students need to complete the full scope of language courses, levels 1-4 to be enrolled in this course of study. An emphasis is placed on international relations, with subtopics such as diversity, tolerance, technology, environment, global politics, art influences, immigration and migration, etc.

Individuals and Societies (Group 3)

^*IB History of The Modern World, #2168,
Length: Two Semesters *Grades: 11,12*
Prerequisite: None *Credit: 1 Social Studies*
(fulfills World History requirement)
NCAA Approved

This course is an integral part of the IB Diploma Program. It is thematically focused on three topics: Rights and Protest: Civil rights movement in the United States (1954 -65) and Apartheid in South Africa (1948-64), authoritarian states, and Causes and Effects of 20th century wars. This course aims to promote an understanding of history as a discipline, including the nature and diversity of sources, methods and interpretations. Students are expected to understand historical developments at national, regional and international levels and learn about their own historical identity through the study of the historical experiences of different cultures

^*IB History of Europe, #2169
Length: Two Semesters *Grades: 12*
Prerequisite: None, but must have taken IB SL to test for IB *Credit: 1 Social Studies*
NCAA Approved

This course focuses on the international relations and events in Europe 1870-1939. Students will develop the skills of a historian using primary and secondary source material to explain the causes, characteristics, and consequences of major events that have helped shape modern Europe and the international scene.
Specifically, this course focuses on the decline of the Russian Empire and the establishment of communism; the causes, practices, and effects of World War I; and the interwar years with attention to Italy, Spain, and the rise of Nazi Germany. Additionally, students will complete a Historical Investigation in a related topic of their choice.

^*IB Psychology SL/HL Year 1, #2170
Length: Two Semesters *Grades: 11*
Prerequisite: None *Credit: 1 Social Studies*
NCAA Approved

^*IB Psychology SL/HL Year 2, #2171
Length: Two Semesters *Grades: 12*
Prerequisite: IB Psychology Year 1 *Credit: 1 Social Studies*
NCAA Approved

In studying IB Psychology, students will understand that psychology is the systematic study of behavior and experiences. The rapid increase in globalization and the use of technology calls for greater insights into how individuals interpret meanings, relationships and health. Psychology addresses these complex issues so students can develop greater understanding of themselves and others.

^*IB Business Management, #1247
Length: Two Semesters *Grades: 11,12*
Prerequisite: Highly recommended for. *Credit: 1 Elective*
students to take Accounting 1

IB Business Management examines the business decision-making processes and how these decisions impact internal and external environments. The course is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills. The course considers the diverse range of business organizations and activities and the cultural and economic context in which business operates. Emphasis is placed on strategic decision-making and the day-to-day business functions of marketing, production, human resource management, and finance. The course aims to help students understand the implications of business activity in a global market. It is designed to give students an international perspective of business and to promote their appreciation of cultural diversity through the study of topics like international marketing, human resource management, growth, and business strategy.

The Sciences (Group 4)

^*IB Biology SL/HL Year 1, #2010
Length: Two Semesters *Grades: 11,12*
Prerequisites: Chemistry
NCAA Approved

Credit: Life Science

^*IB Biology SL/HL Year 2, #2011
Length: Two Semesters *Grades: 12*
Prerequisite: IB Biology Year 1 *Credit: 1 Life Science*
NCAA Approved

As a result of participation in this course, students will become aware of how scientists work and communicate internationally within the field of biology. By using the scientific method, students will formulate, test and modify hypotheses by making observations and measurements in a controlled experiment. The underlying principles of science used by the students will help them define what composes the study of life. Students in IB Biology will be required to participate in the interdisciplinary Group 4 project.

^*IB Environmental Systems and Societies #2014
Length: Two Semesters *Grades: 11, 12*
Prerequisite: Integrated Life Science *Credit: 1 Life Science*
For IB Diploma students, this course fulfils either the Group 3 or the Group 4 requirement.
NCAA Approved

Environmental Systems and Societies will provide students with a perspective on the environment; one that is scientific and that enables them to adopt an informed and responsible stance on pressing environmental issues they will come to face. Students will understand the value of empirical, quantitative and objective data in describing and analyzing environmental systems. The course will focus on both local and global issues within the context of a systems approach. Specific topics of study include: ecosystems, resource use, conservation, biodiversity, pollution, global warming, human population and environmental philosophies. Students should be prepared to participate in field trips, experiments, projects, discussion and service learning.

^*IB Physics SL/HL Year 1, #2015
Length: Two Semesters *Grades: 11*
Prerequisite or Concurrent: Algebra 2 or IB Math Yr. 1 *Credit: 1 Physical Science*
NCAA Approved

^*IB Physics SL/HL Year 2, #2016
Length: Two Semesters *Grades: 12*
Prerequisite: IB Physics year 1 *Credit: 1 Physical Science*
NCAA Approved

Physics, the most fundamental of all the experimental sciences, seeks to explain the function of the universe, from the tiniest of particles to whole galactic systems and everything in between. Students will learn about select groups of objects both in the realm of their everyday experience and in the realm of the abstract into which only the mind and the most sophisticated pieces of equipment can peer. More specifically, the students will be able to identify the essential elements and describe how they behave and interact with one another in these realms. Students will develop critical thinking skills for solving both quantitative and analytical problems as well as an attitude consistent with professional, collegial science where individuals collaborate across national and political boundaries for the cause of scientific exploration. The course aims will foster an environment in which students will then discover that they, themselves, are capable of and privy to evaluate, predict, and explain the same processes carried out by the most eminent theoreticians and experimenters (natural philosophers) of the past. Students in IB Physics will be required to participate in the interdisciplinary Group 4 project.

Mathematics (Group 5)

^*IB Mathematics: Applications and Interpretations, SL/HL year 1 #1724
Length: Two Semesters *Grades: 11, 12*
Prerequisite: Geometry recommended *Credit: 1 Math*
NCAA Approved

^*IB Mathematics: Applications and Interpretations, SL/HL Year 2 #1725
Length: Two Semesters *Grade:12*
Prerequisite: IB Math Applications & Interpretations Year 1 *Credits: 1 Math*
NCAA Approved

This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. This subject is aimed at students who will go on to study subjects such as design, social sciences, natural sciences, technical medicine (lab technician, etc.), statistics, business, some economics, and psychology, for example.

^*IB Mathematics: Analysis and Approaches, SL/HL Year 1, #1726
Length: Two Semesters *Grades: 11, 12*
Prerequisite: Algebra 2 or Geometry with teacher recommendation *Credits: 1 Math*
NCAA Approved

^*IB Mathematics: Analysis and Approaches, SL/HL Year 2, #1727 *Grade: 12*
Length: Two Semesters *Credits: 1 Math*
Prerequiste: IB Mathematics: Analysis and Approaches, SL/HL, Year 1
NCAA Approved

This course is intended for students who wish to pursue studies in mathematics at university or subjects that have a large mathematical content; it is for students who enjoy developing mathematical arguments, problem solving and exploring real and abstract applications, with and without technology. There is a heavy emphasis on calculus and the subject is aimed at students who will go on to study subjects with substantial mathematics content such as mathematics itself, engineering, physician, physical sciences, or economics for example.

The Arts (Group 6)

^*IB Music Year 1, #1881
Length: Two Semesters *Grades: 11,12*
Prerequisite: None; Previous Music Exp. Recommended *Credit: 1 Elective*

^*IB Music Year 2, #1887
Length: Two Semesters *Grades: 12*
Prerequisite: IB Music 1 or consent of instructor *Credit: 1 Elective*

This year long course will cover all topics in the Theory/Composition/History class. Music, and all of its associations, may vary considerably from one musical culture to another, yet music may share similarities. Such richness offers a variety of ways to encounter and engage with a constantly changing world. Through participating in the study of music we are able to explore the similarities, differences and links in music from within our own culture and that of others across time. All students enrolled in this class **MUST** be enrolled concurrently in a performance ensemble. Students will do a Musical Investigation and study the IB prescribed work. Depending on level chosen, they may also be involved in Solo Performance, Composition or Group Performance.

^*IB Theatre Arts Year 1, #1690
Length: Two Semesters *Grades: 11,12*
Prerequisite: None *Credit: 1 Elective*

^*IB Theatre Arts Year 2, #1691
Length: Two Semesters *Grades: 12*
Prerequisite: IB Theatre Arts Year 1 *Credit: 1 Elective*

After the journey into Theatre Arts the student will understand that theatre is an art. The student will understand Theatre Art is one of the oldest, most universal and most profound of human activities that informs, nourishes, sustains and extends the human spirit in unique and essential ways. The student will understand that this universal and international art is a composite art form, which incorporates several arts and several crafts and the degree of skill, and cohesion with which these arts, crafts, and skills are combined determines how effective, how lifelike, a theatrical event will be. The student will understand that of all the arts, theatre is the one that looks most like life. The student will understand that the truth of theatre lies in its artifice. The student will understand that theatre's lifelike artifice, theatre's search for truth and understanding of the human condition, are the reasons for its international universality. From the study of this art form in various cultures and times in human history, a student will better understand themselves, their society and their world.

^*IB Visual Arts Year 1, #1157
Length: Two Semesters *Grades: 11*
Prerequisite: none *Credit: 1 Elective*

^*IB Visual Arts Year 2, #1158
Length: Two Semesters *Grades: 12*
Prerequisite: IB Visual Art, Yr. 1 #1157 *Credit: 1 Elective*

The IB Visual Art course provides students with opportunities for structured learning and personal exploration, along with research of a more experimental nature. Many art techniques and media will be explored to

- **Stimulate** and train visual awareness, perception and criticism of the visual arts.
- **Encourage** the pursuit of quality, through training, individual experiment and persistent endeavor to investigate, create and explore how innovative you can be.
- **Exemplify** and encourage a lively, inquiring and informed attitude towards art and design in all its forms, culturally, historically and aesthetically.
- **Explore** the world of art through investigation of other cultures and their interpretation of what ART means to them in their land.

This course is based upon the requirements from the International Baccalaureate Art and Design curriculum. A prerequisite of Intro to 2-D Art (preferred) or Exploring Art is required before taking IB Art. Students will build on their current knowledge of art and art making skills through a variety of guided and independent projects, research, critique, and homework assignments. Opportunities to make personal, socio-cultural and aesthetic experiences meaningful through the study of art from various cultures will encourage an inquiring and integrated approach to the production and understanding of art.

IB Film SL, #1663

Length: Two Semesters *Grade: 11,12*
Prerequisite: None *Credit: 1 Elective*
Although this course meets LHS English credit requirements,
It is not accepted by 4 year colleges as an English credit

This course explores multiple aspects of film and develops students' skills so that they become adept in both interpreting and making film texts. IB Film Studies promotes an appreciation and understanding of film as a complex art form, an ability to formulate stories and ideas in film terms, the practical and technical skills of production, critical evaluation of film productions by the student and by others, and a knowledge of film making traditions in more than one country.

Math
Graduation Requirements = 3 Credits

All of the courses in the math department support the grade level learning goals for Mathematics defined by the Common Core State Standards for Mathematics. These standards provide a consistent, clear understanding of what students are expected to learn, so teachers and parents know what they need for success in preparation for college and careers. The mathematics curriculum includes all learners from reviewing the basics to Advanced Placement Calculus and International Baccalaureate mathematics where students have opportunities to receive college credit.

Mathematics is much more than computation; it is also a way of translating relationships and generalizations about the world around us into a symbolic language. This enables us to apply mathematical analysis to help solve problems, establish useful formulas, interpret data, make predictions or important decisions, and communicate that information to others.

Three credits of math are required by the state of Wisconsin and the MPSD for high school graduation. In most cases these credits are earned by successful completion of Algebra, Geometry, and Algebra 2 in the 9-11th grades. It is highly recommended that students complete a fourth math course as seniors prior to taking any placement tests for college or technical schooling

Manitowoc Lincoln High School offers many choices to College and Career Ready mathematics proficiency. Students follow a prescribed order through Geometry, and then are able to choose the courses that meet their ability and future needs as long as they meet prerequisites.

7th Grade	7th Grade Math	7th Grade Accelerated Math
8th Grade	8th Grade Math	8th Grade/Algebra 1 Accelerated
9th Grade	Algebra 1 ----------or---------- Algebra 1 *and* Math Strategies for Algebra 1 (elective credit)	Geometry or Advanced Geometry
10th Grade	Geometry ----------or---------- Geometry *and* Math Strategies (elective credit) ----------or---------- Advanced Geometry	Choose from **Post Geometry Options** listed below
Post Geometry Options	• Algebra 2 (Prerequisite: Geometry) • Math Strategies for Algebra 2 (teacher recommendation/elective credit) • Algebra 2/Pre-Calculus Accelerated (Prerequisite: Geometry) • Pre-Calculus (Prerequisite: Algebra 2) • IB Math: Applications and Interpretations Year 1 (Prerequisite: Geometry/Algebra 2) • IB Math: Applications and Interpretations Year 2 (Prerequisite: IB Math A&I Yr 1) • IB Math: Analysis and Approaches Year 1 (Prerequisite: Algebra 2 or Geometry with teacher recommendation) • IB Math: Analysis and Approaches Year 2 (Prerequisite: IB Math Analysis and Approaches Year 1) • AP Statistics (Prerequisite: Algebra 2) • AP Calculus AB (Prerequisite: Algebra 2/Pre-Calculus or Pre-Calculus) • Early College Credit Program at a local university	

Please note: Additional individualized pathways may be possible if students articulate to school counselors and administration specific needs for math programming.

Math
Required Graduation Credits = 3

Course	Credit	9	10	11	12
Algebra 1 #1731	1	X			
Geometry, #1733	1	X	X		
Advanced Geometry, #1735	1	X	X		
Math Strategies for Algebra 1 #1705	1	X			
Math Strategies for Geometry #1706	1		X		
^Algebra 2, #1738 LTC	1		X	X	X
^*Algebra 2/Pre-Calculus Accelerated, #1743	1		X	X	
Math Strategies for Algebra 2, #1707	1			X	X
Math Applications #1720	1			X	X
^*IB Mathematics: Applications and Interpretations,,SL/HL Yr 1 #1724	1			X	X
^*IB Mathematics: Applications and Interpretations, SL/HL Yr 2 #1725	1				X
^*IB Mathematics: Analysis and Approaches, SL/HL Yr 1 #1726	1			X	X
^*IB Mathematics: Analysis and Approaches, SL/HL Yr 2 #1727	1				X
^*Pre-Calculus, #1746	1			X	X
^*AP Statistics, #1750	1			X	X
^*AP Calculus AB, #1748	1			X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

Algebra 1 #1731
Length: Two Semesters — Grades: 9
Prerequisite: None — Credit: 1 Math
NCAA Approved

The Algebra course aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, inequalities, and systems of equations. Students explore quadratic and exponential functions through graphs, verbal descriptions, and equations. Students broaden their knowledge of statistics as they use regression techniques to analyze the fit of models to data distributions.

Math Strategies for Algebra 1 #1705
Length: Two Semesters — *Grades: 9*
Prerequisite: Be currently enrolled in a Algebra class — *Credit: 1 Elective*

This course serves as a support to students who are currently enrolled in an Algebra class. The purpose of this class is to fill in gaps in prior math knowledge, and to build specific skills needed for success in the Algebra classroom. A smaller class size allows the teacher time to provide one-on-one help as well as small group instruction. Only by teachers approval.

Geometry, #1733
Length: Two Semesters — *Grades: 9, 10*
Prerequisite: Algebra 1 — *Credit: 1 Math*
NCAA Approved
This course is a continuation of *Algebra* and is required for entrance into college. The content of this course is very comprehensive showing the interrelationship of algebra and probability with special attention to problem-solving skills and concepts. The study of geometric figures, their properties and relationships such as congruence and proportionality, prepares for applications in the fields of science and technology. Emphasis will be placed upon developing logical thought processes and being able to show that conclusions agree with our assumptions, definitions, and accepted principles.

Advanced Geometry, #1735
Length: Two Semesters *Grades: 9,10*
Prerequisite: Algebra 1, teacher recommendation *Credit: 1 Math*
NCAA Approved

This course is a continuation of Algebra and can be used as a geometry credit for entrance to college. The content of this course is very comprehensive showing the interrelationship of algebra and probability. Students are expected to use strong problem-solving skills and logical thinking to connect concepts, defend their processes, and use and critique processes of classmates. The study of geometric, their properties and relationships such as congruence and proportionality, prepares students for applications in the fields of science, technology and mathematics (STEM). Emphasis will be placed upon participation in deep and critical discussions as students show how conclusions agree with assumptions, definitions, and accepted principles. This course is a more in depth investigation of Geometry topics than provided within course #1733/1734.

Math Strategies for Geometry #1706
Length: Two Semesters *Grades: 10*
Prerequisite: Be currently enrolled in a Geometry class *Credit: 1 Elective*

This course serves as a support to students who are concurrently enrolled in a Geometry class. The purpose of this class is to help fill in gaps in prior math knowledge, and to build specific skills needed for success in the Geometry classroom. A smaller class size allows the teacher time to provide one-on-one help as well as small group instruction. While the majority of the time is spent building skills needed for Geometry, students will also have some structured time to have assistance on homework. Only by teacher approval.

^Algebra 2, # 1738
Length: Two Semesters *Grades: 10, 11, 12*
Prerequisite: Geometry *Credit: 1 Math*
(Recommended grade of C or above in Algebra 1 & Geometry)
NCAA Approved

This course is the third in the sequence of college preparatory math courses required by most colleges and universities. The concept of relation and function form the central theme. The emphasis will be upon the extension of algebra through second-degree polynomial functions and trigonometry. Other topics will include complex numbers, systems of equations in two and three dimensions, exponentials, logarithms, transforming functions, and extensions of geometry. This course will present an intellectual challenge to any student who enjoys math and will prepare the student for Pre-Calculus, AP Statistics, or IB Math courses.

Math Strategies for Algebra 2, #1707
Length: Two Semesters *Grades: 11,12*
Prerequisite: Be concurrently enrolled in Algebra 2 *Credit: 1 Elective*

This course serves as a support to students who are concurrently enrolled in an Algebra 2 class. The purpose of this class is to help fill in gaps in prior math knowledge and to build specific skills needed for success in the Algebra 2 classroom. A smaller class size allows the teacher time to provide one-on-one help as well as small group instruction. While the majority of time is spent building skills needed for Algebra 2, student will also have some structured time to have assistance on homework. Only by teacher approval.

^*Algebra 2/Pre-Calculus Accelerated, #1743
Length: Two Semesters *Grades: 10, 11*
Prerequisite: Geometry *Credit: 1 Math*
NCAA Approved

(Enrollment in this course requires the permission of the instructor or the math program coordinator)
This combination of Algebra 2/Pre-Calculus provides preparation for students who plan to take AP Calculus, but are entering the accelerated sequence after Geometry instead of at the junior high level.

Math Applications, #1720
Length: Two Semester *Grades: 11,12*
Prerequisite: Geometry *Credit: 1 Math*

This course concentrates on the application of mathematics to contexts related to other subjects being studied and to real-world situations. It is designed to build confidence and encourage an appreciation of mathematics. Students will explore Numbers and Algebra, Functions, Geometry and Trigonometry, and Statistics and Probability through the use of technology.
This course will prepare students for IB Math Applications Year 2.

^*IB Mathematics: Applications and Interpretations, SL/HL Year 1 #1724
Length: Two Semesters *Grades: 11,12*
Prerequisite: Geometry *Credit: 1 Math*
NCAA Approved

This course concentrates on the application of mathematics to contexts related to other subjects being studied and to real-world situations. It is designed to build confidence and encourage an appreciation of mathematics. Students will explore Numbers and Algebra, Functions, Geometry and Trigonometry, and Statistics and Probability through the use of technology.

^*IB Mathematics: Applications and Interpretations, SL/HL Year 2 #1725
Length: Two Semesters *Grades: 12*
Prerequisite: IBMath Applications & Interpretations year 1 *Credit: 1 Math*
NCAA Approved
**** All HL classes will be taught as an Independent Study****

This course concentrates on the application of mathematics to contexts related to other subjects being studied and to real-world situations. Students will continue developing the topics from IB Math Apps year 1, and also begin studying Calculus. This year will also include the writing of the Internal Assessment paper and preparing for the IB exams, if a student chooses to take them.

^*IB Mathematics: Analysis and Approaches, SL/HL Year 1, #1726
Length: Two Semesters *Grades: 11, 12*
Prerequisite: Algebra 2 or Geometry with teacher recommendation *Credits 1 Math*
NCAA Approved

This course concentrates on the analysis of mathematics to contexts related to other subjects being studied and to real-world situations. It is designed for problem solving, exploring real and abstract math applications, and appreciating the beauty of mathematics. Students will explore Numbers and Algebra, Functions, Geometry and Trigonometry, and Statistics and Probability with and without technology.

^*IB Mathematics: Analysis and Approaches, SL/HL Year 2, #1727
Length: Two Semesters *Grades: 12*
Prerequisites: IB Math Analysis and Approaches year 1 *Credits: 1 Math*
NCAA Approved
**** All HL classes will be taught as an Independent Study****

This course concentrates on the analysis of mathematics to contexts related to other subjects being studied and to real-world situations. It is designed for problem solving, exploring real and abstract math applications, and appreciating the beauty of mathematics. Students will continue developing the topics from IB Math Analysis year 1. There is a heavy emphasis on calculus and the subject is aimed at students who will go on to study subjects with substantial mathematics content. This year will also include the writing of the Internal Assessment paper and preparing for the IB exams, if a student chooses to take them.

^*Pre-Calculus, #1746
Length: Two Semesters *Grades: 11, 12*
Prerequisite: Algebra 2 or Alg2/Pre-Calculus *Credit: 1 Math*
(Recommended grade of a strong C or better in Algebra 2)
NCAA Approved

In this survey course of advanced topics in mathematics, students apply and extend their previous knowledge and cover in more depth the concepts and characteristics of the 12 families of functions such as, polynomial, trigonometric, and exponential. This course will also introduce concepts that are studied more in-depth in future Calculus classes such as, limits, optimization, parametric equations and vectors. This course uses the power of technology to provide a rich array of examples of graphs and functions for students to explore real-world problems. This course will prepare students for *AP Calculus* and other introductory college math courses; provide a basis for students entering into advanced math-related fields such as computers, probability, statistics, electronics, engineering, etc. and will present an intellectual challenge to any student who enjoys mathematics.

^*AP Calculus AB, #1748
Length: Two Semesters *Grades:11, 12*
Prerequisite: Pre-Calculus #1146 or Alg2/Pre-Calculus *Credit: 1 Math*
NCAA Approved

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. **Students will have the option to take the AP exam to earn college credit or register for college credit through the University of Wisconsin Green Bay.**

^*AP Statistics, #1750
Length: Two Semesters *Grades: 11, 12*
Prerequisite: Algebra 2 #1738/1739 *Credit: 1 Math*
(Recommended grade of C or better in Algebra 2)
NCAA Approved

Do you often wonder about the world around you? Statistics is the science of data; it is a way of reasoning designed to help us understand the world through data! AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore Data Analysis, Data Collection, Probability, and Statistical Inference. Students will have the option to take the AP exam to earn college credit.

Work Based Learning

Course	Credit	9	10	11	12
Office Aide, #2828	.25 or .5		X	X	X
Teacher Aide, #2830,2831,2832	.25 or .5		X	X	X
Teacher Aide, Elem, #2820	.5 or 1				X

Office Aide, #2828
Length: One Semester *Grades: 10,11,12*
Prerequisite: 3.0 GPA *Credit .25/.5 Elective*

Office aides help in the main office. Some duties may include running errands for the attendance office, assisting the main office and other various assignments as needed. Students must have approval from the attendance office before signing up for this class.

Teacher Aide, #2830 - Grade 10; #2831 - Grade 11; #2832 - Grade 12
Length: One Semester *Grades: 10,11,12*
Prerequisite: 3.0 GPA *Credit: .25/.5 Elective*

Students have a variety of opportunities to provide service as an aide within the school system. This service may be as a teacher aide working directly with students, as a laboratory aide in a science class, or in other ways which may be arranged. The service is for one hour per day for either (or both) semester(s) and is arranged through the teaching staff and the office of the high school principal.

Teacher Aide - Elementary, #2820
Length: Two Semesters *Grades: 11,12*
Prerequisite: None *Credit: 1 Elective*

Seniors who would like to experience dealing with teaching assist an elementary teacher in working with students, correcting papers, tutoring and other duties assigned by the teacher or principal. Students report to the elementary school in the morning through the guidance office.

Music

Performance opportunities in choir, orchestra, band (both concert and marching) and jazz ensemble are available. The musical experience gained from participating in these groups can be continued throughout life as a member of a local church choir, community band, civic orchestra, or as a vocal or instrumental soloist. Whether your interests in music are recreational, social, or career oriented, worthwhile and valuable experiences are available.

Course	Credit	9	10	11	12
White Band, #1810	1	X			
White Orchestra ,#1834	1	X	X		
Red Orchestra, #1865	1			X	X
^*IB Music Year 1/Advanced Theory 1, #1881	1			X	X
^*IB Music HL Year 2/Advanced Theory 2, #1887	1				X
#Jazz Ensemble ,#1857	1	X	X	X	X
Red Band, # 1852	1		X	X	X
Vocal Music Cantabile Choir #1826	1		X	X	X
Vocal Music Chamber Choir, #1877	1		X	X	X
Vocal Music Concert Choir, #1879	1	X	X	X	X
Black Band, #1854 (Audition Only)	1	X	X	X	X

 # Requires approval of the instructor and may require an audition.

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System. Year 3 and 4 of Band, Orchestra or Vocal music will count for Laude**

White Orchestra, #1834

Length: Two Semesters — *Grades: 9 & 10*
Prerequisite: Previous experience in orchestra — *Credit: 1 Elective*

Students who have not taken orchestra before must contact the instructor before registering.
This performance orientated class offers opportunities for continuing string players to learn about and play a variety of music including well known classics, fiddle tunes, and contemporary popular selections. In addition to presenting large group concerts, many orchestra members take part in a variety of other activities during the school year including solo and small ensemble performances. Individual or small group instruction is provided on a regular basis as well.

Red Orchestra, #1865

Length: Two Semesters — *Grades:11,12*
Prerequisite: Previous experience in orchestra — *Credit: 1 Elective*

Concert Orchestra is a performance-oriented group made up of string players who have had previous instruction. Students study and prepare a variety of music ranging from classical and baroque to jazz and popular styles. Wind and percussion players from the Wind Ensemble perform with the group on a regular basis to offer a full symphonic orchestra experience. Students have the opportunity to participate in solo and ensemble festivals. Concert Orchestra meets daily.

^*IB Music SL/Advanced Music Theory and History 1 #1881

Length: Two Semesters — *Grades: 11,12*
Prerequisite: Involvement in a music ensemble class — *Credit: 1 Elective*

This year long course will cover all foundations in music. Curriculum will prepare students for the IB test in year 2 in theory, music analysis, music investigation, history, performance, and composition. Students will explore similarities and differences among music genres and composers. Students will work both in class and independently with study. With additional independent work, students may feel ready for the SL IB Test. Students taking this class as an advanced theory class will use the same curriculum as the IB program. If students chose to move to IB year 2, students will also include a performance aspect.

^*IB Music HL Year 2/ Advanced Music Theory and History 2 #1887
Length: Two Semesters *Grades: 12*
Prerequisite: IB Music Year 1, involvement in a music ensemble class *Credit: 1 Elective*

IB Theory students may take this class with the approval of the instructor. This year long course will review and continue curriculum learned in IB year 1. It will satisfy the Standard Level or Higher Level IB Music. Topics covered will include advanced theory, music analysis, music investigation, history, performance, and composition.

Jazz Ensemble, #1857
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: Consent of Instructor, involvement in White, Red or Black band, or orchestra. *Credit: 1 Elective*

The Jazz Ensemble is made up of students with an interest in performing various styles of jazz who play saxophone, trumpet, trombone, drum set, piano, guitar, and bass. Students are also provided an opportunity to study improvisation and the history of jazz. Membership in one of the concert bands or orchestra is also required, unless arrangements are made with the instructor. Jazz Ensemble meets daily.

White Band, #1810
Length: Two Semesters *Grades: 9*
Prerequisite: None *Credit: 1 Elective*

Red Band, #1852
Length: Two Semesters *Grades: 10, 11, 12*
Prerequisite: None *Credit: 1 Elective*

Black Band, #1854
Length: Two Semesters *Grades:9, 10, 11,12*
Prerequisite: Audition Only *Credit: 1 Elective*

Bands meet daily and are open to all students at any skill level. Students will study, play, and learn about music in concert band, marching band, and pep band. Additional opportunities, such as solo and ensemble are offered as well. Students will continue to learn individually and in a small group setting through the continuation of iMets.

Membership in the bands is determined by grade level in school, ensemble tryout, and/or music department recommendations. All freshmen must register for WHITE BAND. Anyone in grades 10-12 may register for RED BAND. Participation in BLACK BAND is only by audition only for any grade.

Vocal Music—
Cantabile Choir, #1826
Length: Two Semesters *Grades:10,11,12*
Prerequisite: None *Credit: 1 Credit Elective*
Chamber Choir, #1877
Length: Two Semesters *Grades:10, 11,12*
Prerequisite: One Year of High School Choir *Credit: 1 Credit Elective*
Concert Choir, #1879
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: None *Credit: 1 Credit Elective*

Choirs meet daily and are open to all students. Students study and prepare a broad repertoire of music for public performance. Vocal techniques, music reading, and theory are emphasized. Students have the opportunity to participate in solo and ensemble festivals. Membership in the various groups is determined by grade level in school, vocal tryouts, voice range, and/or music department recommendations. Students must be an alto or soprano to enroll in Cantabile Choir. Chamber Choir is open to sophomores, junior and seniors with department recommendation.

Physical Education

Physical Education is an integral part of the total school curriculum. Students are provided opportunities to develop life-long physical skills and activities. The physical education curriculum promotes healthy lifestyles. Every class will participate in a variety of fitness component activities that will emphasize cardiovascular endurance, muscular endurance, muscular strength and flexibility. Each student may select those activities they enjoy or wish to explore.

One and one-half credits of physical education are required for high school graduation. Every course meets daily for one semester and will earn .5 credit.

Additional physical education credits above the 1.5 credit requirement are open to all students. Students completing the 1.5 physical education requirement may elect new courses or repeat a course for .5 credit.

Course	Credit	9	10	11	12
9th Grade Physical Education, #1940	.5	X			
*Advanced Strength Training, #1984	.5		X	X	X
General Physical Education, #1976	.5		X	X	X
Individual Fitness, #1989	.5		X	X	X
*Lifeguard Training, #1994	.5		X	X	X
Outdoor Pursuits, #1987	.5			X	X
Racquet Games, #1985	.5		X	X	X
Recreational Games, #1986	.5		X	X	X
Rhythms/Dance, 1997	.5		X	X	X
Senior Health Club, #1998	.5				X
Strength Training, #1983	.5		X	X	X
Team Sports, #1990	.5		X	X	X
Wellness, #1981/1982	.5		X	X	X
Competitive Team Sports, # 1991				X	X
Health #1903	.5	X	X	X	X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

9th Grade Physical Education, #1940

Length: One Semester — *Grades: 9*
Prerequisite: None — *Credit: .5 Physical Education*

This course will emphasize wellness, individual fitness, and exposure to a variety of activities designed to meet the ongoing challenge of developing and maintaining a healthy, active lifestyle. Students will learn basic rules, skills, and strategies of team and individual activities while developing teamwork and sportsmanship concepts.

*Advanced Strength Training, #1984

Length: One Semester — *Grades: 10,11,12*
Prerequisite: Strength Training — *Credit: .5 Physical Education*

In this course students will expand on their experiences gained in the prerequisite course, Strength Training #1983, to more advanced training methods and program design. They will learn advanced lifts, set personal fitness goals, and design and execute a workout for themselves using personal fitness goals, lifestyle, and fitness principles. Advanced training methods include plyometric, speed training, and Olympic lifts.

Individual Fitness, #1989

Length: One Semester — *Grades: 10,11,12*
Prerequisite: None — *Credit: .5 Physical Education*

Students will increase their overall fitness using a variety of training methods to accomplish student led goals. Students may work on increasing their cardiovascular fitness, muscular endurance, and flexibility while maintaining an energetic learning environment. The class will discuss innovative nutrition guidelines to help each student make healthy food choices and control their body composition. Activities will include crossfit type exercise, interval workouts, stairs weight room circuits, plyometrics, cross training, cycling, and step/water aerobics and step/water aerobics.

***Lifeguard Training, #1994**
Length: One Semester *Grades: 10,11,12*
Prerequisite: Students must be able to swim *Credit: .5 Physical Education*

This course is divided into units which will provide students with American Red Cross certification in Lifeguard Training, CPR for the professional rescuer, and first aid. Students will be required to enter the pool and use a variety of swimming techniques throughout class. **An additional fee of $35 is required to obtain the full Red Cross Certification.**
Lifeguard Training—
Students will obtain skills and knowledge needed to prevent and respond to aquatic emergencies including rescue assists and carries, spinal injury care, CPR, and first aid.

Outdoor Pursuits, #1987
Length: One Semester *Grades: 11,12*
Prerequisite: Students must have experience riding a bike. *Credit: .5 Physical Education*

Fee: $40 (Fundraising is available)
This course introduces students to lifelong outdoor activities. Activities may include sea kayaking and stand-up paddle boarding on Lake Michigan, rock climbing, mountain biking, caving, GPS and navigation, geocaching, PADI discover scuba, cross country skiing, snowshoeing, wilderness survival skills, and archery. Students will also participate in team building activities to help develop problem solving skills, trust, communication, and cooperation.

Racquet Games, #1985
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Physical Education*

This course will help students develop skills and strategies used in the lifetime activities of racquet sports. They will be given general to advanced instruction in tennis, badminton, pickleball, eclipse ball, and table tennis. Students will also work on their cardiovascular conditioning, foot speed, and agility during class.

Recreational Games, #1986
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Physical Education*

Fee: $30
This course will offer students the opportunity to learn the skills, rules, and strategies necessary to participate in various recreational games. Activities may include disc golf, bowling, juggling, ultimate Frisbee, golf, bocce ball, hacky sack, eclipse ball, broomball, curling, touchball and other games popular around the world.

Rhythms/Dance, #1997
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Physical Education*

Students will learn concepts and dance techniques to be comfortable in any dancing environment. They will also explore cultural aspects of dance. Dance styles may include modern, social, line, traditional, and swing.

Senior Health Club, #1998
Length: One Semester *Grades: 12*
Prerequisite: None *Credit: .5 Physical Education*

This course is open to seniors who have completed their 1.5 physical education credits requirement. Students will develop their own individualized fitness program that will include cardiovascular fitness, muscular endurance, and flexibility.

General Physical Education, #1976
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Physical Education*

This course will emphasize wellness, individual fitness, and exposure to a variety of activities including team sports, dual sport activities, individual physical activities, outdoor pursuits and aquatics which are designed to meet the ongoing challenge of developing and maintaining a healthy, active lifestyle.

Strength Training, #1983
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Physical Education*

Students may develop an understanding for the importance of physical activity through the use of weight training. This course introduces students to basic muscular strength and muscular endurance components with an emphasis placed on improving their lifting technique and overall strength. Students will also learn the importance of nutrition that will directly affect their physical health and boon.

Team Sports, #1990
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Physical Education*

Students may develop advanced sport specific skills and an understanding of strategy, team dynamics, performance enhancement, and conditioning techniques through participation and competition in team sports. The first semester activities may include Football, La Crosse, Volleyball, Roller Hockey, and Water Polo. Semester 2 classes activities may focus on Softball, Soccer, Basketball, Team Handball, and Water Polo.

Wellness, #1981 & 1982
Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5*

Do you know what it takes to maintain a healthy lifestyle? With obesity rates on the rise, it's more important than ever before to learn what it takes to maintain a healthy weight. This class will help you create a fitness regimen that will benefit your long term health, along with finding ways to implement healthy food choices in your diet. Nutritious labs are incorporated in the curriculum. A field trip to the School Forest complements this class.

Competitive Team Sports #1991 *Grades: 11,12*
Length: One Semester *Credit: .5*
Prerequisite: Team Sports and Junior or Senior Standing

Competitive Team Sports will be a chance for **Juniors and Seniors** to experience **rigorous and competitive** play within a PE format of Team Sports. This class is designed for competitive individuals that want to improve their mastery in advanced skillwork and sports strategy. Students will engage in competitive play within a variety of team related sports: basketball, volleyball, soccer, tchoukball, and football to name a few. This highly active course will incorporate the necessary skills needed beyond physical fitness ability. The class will read, discuss, and apply the concepts of teamwork, sportsmanship, and nutrition. This new learning will not be limited to athletics. The lessons in Competitive Team Sports will promote not only a healthy body, but also a healthy mind, that will prepare students for life after high school.

Health Education

Health Education provides information in such a way that it influences people to take positive action about their personal wellbeing. It is the hope of health educators that students apply what they learn, by taking an active role in caring for themselves and learn how to make wellness a lifelong habit.

Course	Credit	9	10	11	12
Health #1903	.5	X	X	X	X

Health, #1903

Length: One Semester *Grades: 9,10,11,12*

Prerequisite: None *Credit: .5 Health*

Every student in the state of Wisconsin must earn one-half credit of health education. Course content includes knowledge and skills in accident prevention and safety, community health, consumer health, environmental health, family life education, abstinence, family planning, reproduction and childbirth, prevention and knowledge of sexually transmitted disease, mental and emotional health, nutrition and fitness, personal health, prevention and control of disease, and substance use and abuse.

Science
Graduation Requirements = 3 credits

The goal of science education in the Manitowoc Public School District is to provide a well-rounded science program that meets the needs of all students within the district.

The science department requires that students take at least one credit of physical science, one credit of life science, and any other science course of their choice. Biology is the basic entry-level life science course which allows you to take higher life science courses after successful completion. Physical Science is a basic entry-level physical science course for most students. However, if you love science and/or see yourself taking more science courses beyond high school for your academic career choice, you can omit taking the physical science course and enroll directly in chemistry or physics to complete your physical science requirement. By enrolling directly into chemistry or physics without taking the Physical Science course, you will increase your options to take many other science courses offered at Lincoln High School, which could give you more Laude points as well as possible college credits.

The course descriptions on the following pages will help answer questions about the nature of each course, its difficulty, and if there are any prerequisites. Students are encouraged to thoroughly read the course descriptions before enrolling in classes.

Physical Science Courses

Physical Science

Astronomy (.5 credit)
Chemistry **LTC**
Chemistry in the Community
AP Chemistry
General Earth Science
Principles of Engineering **PLTW**
Food Science
Organic Biochemistry (.5 credit)
Physics **LTC**
Advanced Physics
IB Physics

Life Science Courses

Biology

Anatomy & Physiology (.5 credit) **LTC**
AP Biology
IB Biology
Aquatic Environmental Science (.5 credit)
Terrestrial Environmental Science (.5 credit)
IB Environmental Systems and Societies
AP Environmental Science
Human Genetics (.5 credit)
Microbiology (.5 credit) **LTC**
Zoology (.5 credit)

Science Option #1 for HS:

1. You will take Biology in 9th grade.
2. You will take Physical Science in 10th grade.
    a. *Note: There is an option to take Biology and Physical science at the same time in the 9th grade. You can also take other science courses at the same time as either biology or physical science as long as you have the prerequisites.
3. You can take any other science course in 11th and 12th grade that you think will help you with your academic career planning.

Science Option #2 for HS

1. You will take Biology in 9th grade.
2. You can take Chemistry, Chem-Com, Physics, or Earth science in 10th-11th and 12th grade instead of taking the Physical Science course.
3. You can take any additional science courses that will help you with your academic career planning for your future as long as you have the prerequisites.

Science
Graduation Requirements = 3 Credits

Course	Credit	9	10	11	12
Physical Science					
Physical Science #2041	**1**	**X**	**X**		
Astronomy, #2058	**.5**		**X**	**X**	**X**
^*Chemistry #2051 **LTC**	**1**		**X**	**X**	**X**
Chemistry/Community #2077	**1**		**X**	**X**	**X**
^*AP Chemistry #2091	**1**			**X**	**X**
General Earth Science #2074	**1**		**X**	**X**	**X**
^*Principles of Engineering PLTW #2057	**1**		**X**	**X**	**X**
^Food Science, #1426	**1**		**X**	**X**	**X**
^*Organic Biochemistry, #2070 **(2022-2023 School Year)**	.5			**X**	**X**
^*Physics, #2055 **LTC**	1		**X**	**X**	**X**
^*Advanced Physics, #2054	**1**			**X**	**X**
^*IB Physics SL/HL Yr 1 #2015	**1**			**X**	
^*IB Physics, SL/HL Yr 2 #2016	**1**				**X**
Life Science					
Biology #2026	**1**	**X**	**X**		
^*Anatomy and Physiology, #2064 **LTC**	**.5**		**X**	**X**	**X**
^*AP Biology #2036	**1**			**X**	**X**
^*IB Biology Year 1, #2010	**1**			**X**	
^*IB Biology Year 2, #2011	**1**				**X**
Aquatic Environmental Science, #2072	**.5**		**X**	**X**	**X**
Terrestrial Environmental Science, #2073	**.5**		**X**	**X**	**X**
^*IB Environmental Systems & Societies SL #2014	**1**			**X**	**X**
^*AP Environmental Science #2083	**1**		**X**	**X**	**X**
^*Human Genetics, #2082	**.5**		**X**	**X**	**X**
^*Microbiology, #2066 **LTC** **(2021-2022 School Year)**	**.5**		**X**	**X**	**X**
Zoology, #2076	**.5**		**X**	**X**	**X**

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

Physical Science, #2041
Required Course
Length: Two Semesters *Grades: 9 & 10*
Prerequisite: None *Credit: 1 Physical Science*
NCAA Approved
****Can be replaced if taking Science Option#2 listed above****
Physical Science uses the NGSS science standards for the High School student. This course is designed to cover introductory topics in physics, chemistry, earth science as well as some space science. This course is an introductory course in all of these topics and it does not replace any of these same courses that are available after you have taken this course. Included in this course are laboratory investigations, model design and evaluation and student discussions. Students will develop basic skills in proper lab techniques, research investigations, and critical thinking. Stress is placed on the interrelationship of all physical aspects of the environment (abiotic factors) with the living environment (biotic factors).

Biology, #2026
Required Course
Length: Two Semesters *Grades: 9 & 10*
Prerequisite: None *Credit: 1 Life Science*
NCAA Approved

Biology is the prerequisite to all other life science classes. This course is designed to cover genetics, DNA, protein synthesis, cell cycle, evolution, homeostasis, photosynthesis, cellular respiration, cycles of matter, flow of energy among organisms, succession, bio diversity, human impact of natural environments, interdependent relationships in ecosystems, human sustainability, weather and climate, and engineering life science principles. Included in this course are laboratory investigations, model design and evaluation and student discussions. Students will develop basic skills in using a microscope, proper lab techniques, research investigations, and critical thinking. Stress is placed on the interrelationship of all living things as well as on their relationship to health and welfare of humans and uses the NGSS science standards for High School.

The Physical Sciences

Astronomy, #2058
Length: One Semester *Grades: 10,11,12*
Prerequisite: Passed or concurrently enrolled in Algebra *Credit: .5 Physical Science*
NCAA Approved

For anyone interested in understanding the universe; this course considers the field from early astronomy to the space age. Areas studied include the earth and the moon, the solar system, stars, galaxies, origins of the universe, and tools of astronomers. The exploration of space by people and knowledge gained from it about the solar system will be studied. Students will have the opportunity to use telescopes.

These units will be explored through various readings, discussions, activities and virtual laboratory exercises. Students enrolled in Astronomy should be comfortable solving mathematical problems (solid foundation algebra), enjoy reading, and have a willingness to think critically and discuss their ideas in a classroom discussion.

^*Chemistry, #2051
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Algebra *Credit: 1 Physical Science*
NCAA Approved

Chemistry is designed to meet the needs of students desiring post-secondary education. A solid algebra foundation is required. This is a general chemistry course that includes measurement, atomic structure, bonding, chemical reactions, acid/base chemistry, redox and thermodynamics. This course is a laboratory based course that will focus on proper laboratory techniques as a way to master the course content. The students will be required to purchase a lab notebook and scientific calculator for this course.

Chemistry in the Community, #2077
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: None *Credit: 1 Physical Science*
NCAA Approved

Chemistry in the Community is a course that covers chemistry topics in a spiral format and focuses its topics around more practical applications and relates to everyday problems that use chemistry as part of a solution. These topics include water, materials, petroleum, air, industry, atoms, and food. This class is designed to be a chemistry course that is geared for college bound students who expect to be non-science majors. It is a more conceptual approach to chemistry that is not as math intensive as the traditional course but still includes algebra, dimensional analysis, logarithms, etc.

This course would not be a suitable chemistry placement if a student is planning to be a science major (Including the health field). Also, it will not be possible to switch from General Chemistry to Chemistry in the Community at the end of the semester because of the nature of the class, or vice versa.

^*AP Chemistry, #2091
Length: Two Semesters *Grades: 11,12*
Prerequisite: Chemistry and Algebra *Credit: 1 Physical Science*
NCAA Approved

The Advanced Placement Chemistry course is designed to be the equivalent of a college introductory chemistry course usually taken by college freshmen. After showing themselves to be qualified on the Advanced Placement Examination, some students (as college freshmen) are permitted to take upper level chemistry courses, register for courses for which chemistry is a prerequisite, and/or receive up to six credits for fulfilling the requirement for a laboratory science course. This course is designed to be taken by students after the successful completion of a first course in high school chemistry. It will provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of chemistry. The students will be required to purchase a lab notebook for this course.

General Earth Science, #2074
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: None *Credit: 1 Physical Science*
NCAA Approved

This course investigates the physical properties of the earth and space. It is designed for students who would like to learn more about the planet on which they live. Topics include basic astronomy, geomorphology, oceanography and meteorology. Students enrolled in General Earth Science should be comfortable solving mathematical problems, enjoy reading at a higher level, and have a willingness to think critically and discuss their ideas in the classroom.

^*AP Environmental Science, #2083
Length: Two Semesters *Grades: 10, 11,12*
Prerequisite: Biology *Credit: 1 Life Science*
NCAA Approved

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

PLTW ^*Principles of Engineering, #2057
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: Algebra *Credit: 1*
NCAA Approved

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Students will use knowledge of material properties and effects of stress to build a support structure. Students will also apply concepts of mechanical, electrical and control systems in a design problem.

Strongly recommend a C or better in Algebra before taking this class.

^Food Science, # 1426
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: 2 successfully completed science credits. *Credit: 1 Physical Science*
1 Physical, 1 Life

This course will study food through a scientific lens. It will explore scientific principles about how and why we process, prepare, and store food for human consumption using direct and inquiry-based experimentation. Topics covered include microbiological food-borne illness, sensory testing and data analysis, water's role in food, proteins, muscles and meat, enzymes, sugars and carbohydrates, fermentation, coagulation, lipids, pH and leavening agents. Two credits of science are required before enrolling in this class. Students will be required to purchase a lab notebook for this class.

^*Organic Biochemistry, #2070
Length: One Semester *Grades: 11,12*
Prerequisite: Chemistry *Credit: .5 Physical Science*
NCAA Approved
***** Will be offered every other year: Next year offered 2022-2023*****

Organic Biochemistry is designed to meet the content and laboratory techniques required of students entering post-secondary chemistry, biological, and medical fields. The course is based around foundational organic reaction mechanisms that will serve as models for the laboratory experiments conducted. It will include the role of hydrocarbons, alcohols, aldehydes, ketones, esters, organic acids, and amino acids in the application of proteins, enzymes, isomerization and pharmacology.

^*Physics, #2055
Length: Two Semesters *Grades:10, 11, 12*
Prerequisite: Geometry or Adv Geometry(or concurrently) *Credit: 1 Physical Science*
NCAA Approved

Physics is the study of the fundamental laws that govern the universe. Topics will include 1 and 2 dimensional motion, forces, energy, momentum, and might include heat, waves, and electricity. Although fundamental concepts will be studied, many practical applications of physics are included. Math is regularly used in physics so a solid understanding of Algebra and Trigonometry are required (see prerequisite). Physics is taught at a level that will prepare students for college physics or engineering classes.

^*Advanced Physics, #2054
Length: Two Semesters *Grades: 11,12*
Prerequisite: Physics *Credit: 1 Physical Science*
NCAA Approved

Advanced Physics is a continuation of Physics. Students will dive into the realms of physics not traditionally taught at a high school level. Students will have the opportunity to learn about the behavior of light, nuclear physics, energy production and its impact to the environment, and cosmology. Physics is required before taking Advanced Physics.

^* IB Physics SL/HL Year 1 #2015
Length: Two Semesters *Grades: 11*
Prerequisite: Geometry or Adv Geometry(or concurrently) *Credit: 1 Physical Science*
NCAA Approved

^*IB Physics SL/HL Year 2 #2016
Length: Two Semesters *Grades: 12*
Prerequisite: IB Physics year 1 *Credit: 1 Physical Science*
NCAA Approved

Physics, the most fundamental of all the experimental sciences, seeks to explain the function of the universe, from the tiniest of particles to whole galactic systems and everything in between. Students will learn about select groups of objects both in the realm of their everyday experience and in the realm of the abstract into which only the mind and the most sophisticated pieces of equipment can peer. More specifically, the students will be able to identify the essential elements and describe how they behave and interact with one another in these realms. Students will develop critical thinking skills for solving both quantitative and analytical problems as well as an attitude consistent with professional, collegial science where individuals collaborate across national and political boundaries for the cause of scientific exploration. The course aims will foster an environment in which students will then discover that they, themselves, are capable of and privy to evaluate, predict, and explain the same processes carried out by the most eminent theoreticians and experimenters (natural philosophers) of the past. Students in IB Physics will be required to participate in the interdisciplinary Group 4 project.

The Life Sciences

^*Anatomy and Physiology, #2064
Length: One Semester *Grades: 10,11,12*
Prerequisite: Biology *Credit: .5 Life Science*
NCAA Approved

The anatomy portion of this course will study mammalian structure, relating to the human body whenever possible, by means of lecture, microscopic observations, and the detailed dissection of the fetal pig. Memorization of the anatomical structures will be required. In physiology, students will study the function of the various organ systems of the human body. Laboratory exercise and lectures will be used to study both anatomy and physiology. This is a valuable course for students entering health services and other science-related areas. (Sophomores may enroll in this course with the recommendation of a science instructor.)

^*AP Biology, #2036
Length: Two Semesters *Grades: 11,12*
Prerequisite: Chemistry *Credit: 1 Life Science*
NCAA Approved

The Advanced Placement Biology course is a college-level introductory biology course. This course is approved and accredited by the College Board. College credit may be granted at an additional cost via spring examinations. It is a fast paced course for highly motivated students and will provide students with the molecular-level framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology.

^*IB Biology SL/HL Year 1, #2010
Length: Two Semesters *Grades: 11,12*
Prerequisites: Chemistry or consent of instructor *Credit: 1 Life Science*
NCAA Approved

^*IB Biology SL/HL Year 2, #2011
Length: Two Semesters *Grades: 12*
Prerequisite: IB Biology Year 1 *Credit: 1 Life Science*
NCAA Approved

As a result of participation in this course, students will become aware of how scientists work and communicate internationally within the field of biology. By using the scientific method, students will formulate, test and modify

hypotheses by making observations and measurements in a controlled experiment. The underlying principles of science used by the students will help them define what composes the study of life. Students in IB Biology will be required to participate in the interdisciplinary Group 4 project.

Aquatic Environmental Science, #2072

Length: One Semester *Grades: 10,11,12*
Prerequisite: Biology *Credit: .5 Life Science*
NCAA Approved

This course is intended for students who have an interest in the environment, particularly in water ecosystems. During this semester students will compare two local streams and determine overall health as well as labs within the classroom based on properties of water. Class time will be a combination of labs, field trips, discussions, lecture and other activities. Biology is the pre-requisite for this class.

Terrestrial Environmental Science, #2073

Length: One Semester *Grades: 10,11,12*
Prerequisite: Biology *Credit: .5 Life Science*
NCAA Approved

This course is intended for students who have an interest in the environment, particularly in land ecosystems. During this semester students will be looking at the importance of natural resources such as soil, air, and living organisms. Class time will be a combination of labs, field trips, discussions, lecture, and other activities. Biology is a pre-requisite for this class.

*Although recommended, both courses 2072, 2073 do not need to be taken together.

^*IB Environmental Systems and Societies SL, #2014

Length: Two Semesters *Grades: 11,12*
Prerequisite: Biology *Credit: 1 Life Science*
NCAA Approved

For IB Diploma students, this course will fulfil either Group 3 or Group 4 requirements.
Environmental and Societies will provide students with a perspective on the environment; one that is scientific and that enables them to adopt an informed and responsible stance on pressing environmental issues they will come to face. Students will understand the value of empirical, quantitative and objective data in describing and analyzing environmental systems. The course will focus on both local and global issues within the context of a systems approach. Specific topics of study include: ecosystems, resource use, conservation, biodiversity, pollution, global warming, human population and environmental philosophies. Students should be prepared to participate in field trips, experiments, projects, discussion, service learning and political involvement.

^*Human Genetics, #2082

Length: One Semester *Grades: 10,11,12*
Prerequisite: Biology *Credit: .5 Life Science*
NCAA Approved

Human Genetics is designed for students interested in learning about recent developments in human genetics and the possible implications of new technologies. Specific topics studied include: DNA, RNA, cell processes, chromosomal abnormalities, genetic engineering, biotechnology, pedigree analysis, cancer, reproduction and development, behavior, population genetics, cloning and genetic counseling. This is a valuable course for students entering health services and other science-related areas.

^*Microbiology, #2066

Length: One Semester *Grades: 10,11,12*
Prerequisite: Biology *Credit: .5 Life Science*

NCAA Approved

***** Will be offered every other year: Next year offered 2021-2022*****

Microbiology will be primarily laboratory oriented and will include the use of the oil immersion microscope. The course will include the study of molds, yeasts, algae and protozoans, but the major emphasis will be on the study of bacteria. This will include bacteria from different sources such as bacteria of air, water, soil and bodies of plants and animals. The relationships between disease and disease-producing organisms in our world will be discussed. Direct applications of microbiology will be studied. The course will be valuable for those planning to enter Health services and other science-related areas. (Sophomores may enroll in this course with recommendation of their science instructor).

Zoology, #2076

Length: One Semester *Grades: 10,11,12*
Prerequisite: Biology *Credit: .5 Life Science*

This semester long class, provides a survey of animal phyla that spans from macro-invertebrates to vertebrates. The course is designed for students who want to explore animal phyla, the organ systems that help these animals live, as well as the adaptations that allows them to survive within their, often changing environments. Through dissections and research, students will discover the physical and behavioral commonalities, as well as the differences that illustrates the importance of diversity in our ecosystem. Students will also explore how environmental changes lead to adaptation or extinction

Social Studies
Graduation requirements = 3 credits

General Information
A student must take a minimum of three social studies credits during grades 9-12 to graduate: one credit of American History, one credit of World History/Global Perspectives, one half credit of Civics, one half credit of an elective.

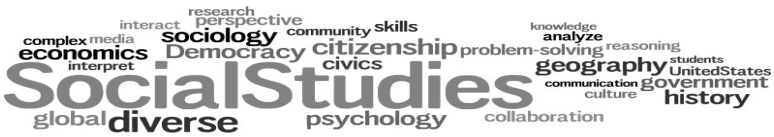
The social studies courses that are offered at Lincoln High School are designed to facilitate student learning that is challenging, engaging, and applicable to the lives of students. We place a direct focus on helping young people develop the ability to make informed and reasoned decisions for the public good. Students graduate Lincoln High School prepared to participate as citizens of a culturally diverse and democratic society in an increasingly globalized world.

Our teachers are committed to helping students become creative and independent thinkers by guiding them in the understanding and analysis of important political, geographic, economic, legal, and social issues of our contemporary and historical world.

Our teachers aim:

- to foster an understanding of the processes which are critical to solving complex problems, and to engage students in the regular practice of these problem-solving skills.
- to promote knowledge of the core content of historical, political, economic, geographic, and social issues of our world, our nation, and our community.
- to help students see the world from different perspectives-those of the historian, the geographer, the economist, the political scientist, the psychologist, the sociologist -and employ the different tools and techniques of each discipline in critical thought.
- to guide our diverse student population in realizing their potential as citizens of a democratic nation and members of our local community.

In addition to content knowledge, Social Studies courses emphasize 21st century skills such as critical thinking and problem solving, analysis, reasoning, communication and collaboration, information and media literacy, and being aware of the changing world community in which we all live.



Social Studies Credit Requirements and Course Options

Credit Requirements	Options for fulfilling Social Studies Credits
1 credit American History	Modern U.S. History or Advanced Modern US History (National History Day) AP US History
1 credit World History/Global Perspectives	World History IB History of the Modern World
½ credit Civics	Civics – ½ credit AP US Government and Politics – 1 credit
½ credit elective	Psychology – ½ credit Psychology of a Serial Killer – ½ credit Economics– ½ credit (fulfills financial literacy requirement) Introduction to Sociology – ½ credit AP Human Geography – 1 credit AP US History – 1 credit AP US Government and Politics – 1 credit AP Psychology – 1 credit IB History of Europe – 1 credit IB Psychology – 1 or 2 credits

Additional considerations:

Students in the AP and/or IB programs must still fulfill the district credit requirements

AP US Government fulfills the Civics requirement
IB History of the Moden World fulfills the World History/Global Perspectives requirement
Economics may be taken for the Financial Literacy requirement

Social Studies Graduation Requirements = 3 Credits
American History = 1 Credit
World History/Global Perspectives = 1 Credit
Civics = .5 Credit
Social Studies Elective = .5 Credit

Course	Credit	9	10	11	12
Modern U.S. History #2121	**1**	**X**			
*Advanced Modern U.S. History, #2167	**1**	**X**			
^*AP Psychology, #2141 **(LTC)**	**1**			**X**	**X**
^*AP U.S. Government and Politics, #2127	**1**		**X**	**X**	**X**
^*AP U.S. History, #2124	**1**			**X**	**X**
^*AP Human Geography, #2126	**1**	**X**	**X**	**X**	**X**
^* IB History of the Mod. World, #2168, SL/Yr 1	**1**			**X**	**X**
^* IB History of Europe, #2169, HL/Yr. 2	**1**				**X**
^* IB Psychology, #2170, SL/Yr 1	**1**			**X**	**X**
^* IB Psychology, #2171, HL/Yr 2	**1**				**X**
Civics, #2156	**.5**		**X**	**X**	**X**
Economics, #2136	**.5**		**X**	**X**	**X**
Psychology, #2138	**.5**		**X**	**X**	**X**
Psychology of a Serial Killer #2142	**.5**			**X**	**X**
^*Introduction to Sociology, #2146 **(LTC)**	**.5**			**X**	**X**
World History, #2150	**1**		**X**	**X**	**X**

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

HISTORY COURSES

Modern U.S. History, #2121
Length: Two Semesters *Grades : 9*
Prerequisite: None *Credit: 1 US History*
NCAA Approved

Students in this course will explore people, events and movements in United States History, from the post-reconstruction period to the present. Special emphasis is placed on inquiry into changes in society, economic development, and the emergence of the U.S. as a global power. Students will analyze and evaluate a variety of documents, sources, and perspectives. The study of U.S. History from the late 19th century to the present requires that students generate and research compelling questions related to the concepts of freedom, equality, diversity, justice, security, and the American identity. This course fulfills the American History credit requirement.

***Advanced Modern U.S. History, (National History Day) #2167**

Length: Two Semesters *Grades: 9*
Prerequisite: None *Credit: 1 U.S.History*
NCAA Approved

This course concentrates on the political, economic, cultural, and social history of the United States from the post-reconstruction period to the present. Emphasis is placed on using knowledge of the past to better understand conditions in the US and the world today. It is designed for those students whose academic needs justify a more rigorous and in-depth curriculum, and is recommended for students who intend to take IB or AP courses in high school. A major component of this class involves project-based learning focused on teaching critical thinking, writing, and research skills. Students will complete the National History Day project and will share that project with an audience outside the classroom. This course fulfills the American History credit requirement.

World History, #2150

Length: Two Semesters *Grades: 10*
Prerequisite: None *Credit: 1 World History/Global Perspectives*

NCAA Approved

This course examines World History, beginning with early civilizations and concluding with an emphasis on the modern world into the 21st Century. The focus of this course is a global perspective to the world's diverse cultures, including political, religious, social, and economic patterns that have shaped our world to the present. This course fulfills the World History/Global Perspectives credit requirement.

^*IB History of the Modern World SL Year 1 #2168,

Length: Two Semesters *Grades: 11,12*
Prerequisite: None *Credit: 1 World History/Global Perspectives*

NCAA Approved

This course is an integral part of the IB Diploma Program. It is thematically focused on three topics: Rights and Protest: Civil rights movement in the United States (1954 -65) and Apartheid in South Africa (1948-64), authoritarian states, and Causes and Effects of 20th century wars. This course aims to promote an understanding of history as a discipline, including the nature and diversity of sources, methods and interpretations. Students are expected to understand historical developments at national, regional and international levels and learn about their own historical identity through the study of the historical experiences of different cultures

^*IB History of Europe HL Year 2 #2169

Length: Two Semesters *Grades: 12*
Prerequisite: None, but must have taken IB SL to test for IB *Credit: 1 Social Studies*
NCAA Approved

This course focuses on the international relations and events in Europe 1870-1939. Students will develop the skills of a historian using primary and secondary source material to explain the causes, characteristics, and consequences of major events that have helped shape modern Europe and the international scene. Specifically, this course focuses on the decline of the Russian Empire and the establishment of communism; the causes, practices, and effects of World War I; and the interwar years with attention to Italy, Spain, and the rise of Nazi Germany. Additionally, students will complete a Historical Investigation in a related topic of their choice.

^*AP U.S. History, #2124
Length: Two Semesters *Grades: 11,12*
Prerequisite: None *Credit: 1 Social Studies*
NCAA Approved

The primary goal of this course is to give students a challenging experience in American History. The secondary goal is to acquaint the student with college level coursework. The last goal is to prepare the student to take and pass the Advanced Placement US History exam at the end of the school year. The course includes all major time periods of United States history from European contact through the last presidential election. The program challenges students to function at a level equivalent to that of a
full-year introductory college course. Passage of the year-end examination can result in the student receiving credit from their post-high school college of choice.

ECONOMICS COURSES

Economics, #2136
Length: One Semester *Grades: 10, 11, 12*
Prerequisite: None *Credit: .5 Social Studies*
(Meets financial literacy requirement)

NCAA Approved

Economics is the study of how people and societies choose to use and manage their scarce resources. For example, you are using your time right now to read this course bulletin and select classes. Are you picking the best classes for your future goals? How do you know? Students in economics will learn how to make better decisions, explore their own role in the economy as a consumer and a laborer, discover the relationship between global economics, learn methods to tell if an economy is healthy or not and discover why the economy turned upside down in 2008. We will also dive in to personal finance where students will learn how to afford the lifestyle they desire, manage credit like a champion, save and invest for their future and we will do all of this through a simulated economy. What is a simulated economy? Rather than earning a grade based on percentages, students will engage in a simulation wherein they will earn wages, pay taxes, fines, fees, create public policies, and purchase their grade with the income they have earned. Incoming sophomores should consult with their guidance counselor and social studies teacher before enrolling. This course meets the district financial literacy graduation requirement.

GEOGRAPHY COURSES

^*AP Human Geography, #2126
Length: Two Semesters *Grades: 9, 10, 11,12*
Prerequisite: None *Credit: 1 Social* Studies
NCAA Approved

AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The course focuses on Population and Migration, Culture, Political Organization, Agriculture and Rural Land Use, Industrialization and Economic Development, as well as Cities and Urban Land Use.

GOVERNMENT AND CIVICS COURSES

Civics, #2156
Length: One Semester *Grades: 10, 11, 12*
Prerequisite: None *Credit: .5*
(Meets Civics Requirement)

NCAA Approved

Civics is the study of citizenship and how citizens operate within the political process. In this course students will explore the various avenues of political participation necessary to keep and maintain a healthy democracy. Activities range from simulations and critical thinking exercises, to using current events as a tool to foster discussions and better understanding of political concepts and ideas. In addition, students will learn about the principles of democracy, the US Constitution, political parties, the media, interest groups, the structures and functions of government, and how citizens can operate within the political system. Students will also practice what they learn by completing a citizenship project during the semester.

^*AP U.S. Government and Politics, #2127
Length: Two Semesters *Grades: 10, 11,12*
Prerequisite: None
(Meets Civics Requirement) *Credit: 1 Social* Studies
(Meets Civics Requirement)

NCAA Approved

AP Government is a college-level course designed to expose the student to an in-depth study of contemporary American government and the political process. The course is primarily lecture and discussion with assigned readings, usually on a weekly basis. The overall goal of the course is to prepare the students for the AP Exam, as well as give them an enduring understanding of how the government operates and the political processes that are at play in the functioning of our government. All students are strongly encouraged to take the AP test.

BEHAVIORAL SCIENCES

^*AP Psychology, #2141
Length: Two Semesters *Grades: 10,11,12*
Prerequisite: None *Credit: 1 Social Studies*
NCAA Approved

Advanced Placement Psychology is a college level psychology course. Students will be introduced to the systematic and scientific study of mental processes and behavior. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. This class aligns with the learning objectives set forth by the College Board that administers the AP Psychology exam and covers an array of 14 different topics needed to survey the field of psychology. Specifically, students will engage in an in-depth study of the biological bases of behavior, sensation and perception, motivation, learning, human development, abnormal behavior, and social psychology. They also learn about the methods psychologists use to explore the process involved in normal and abnormal perceptions, thoughts, feelings and actions. Students enrolled in this course will be prepared to take the AP Psychology exam.

^*IB Psychology SL Year 1 #2170
Length: Two Semesters *Grades: 11*
Prerequisite: None *Credit: 1 Social Studies*
NCAA Approved

In studying IB Psychology, students will understand that psychology is the systematic study of behavior and experiences. In year one, students will focus on cultural impact on behavior, the influence of goals and planning on behavior, the process of research in psychology and the impact biology has on human activity. This course emphasizes writing, literacy and analysis while preparing college bound students to be better writers, readers and thinkers.

^*IB Psychology II HL Year 2 #2171

Length: Two Semesters *Grades: 12*
Prerequisite: IB Psychology Year 1 SL *Credit: 1 Social Studies*
NCAA Approved

This course explores behavior and mental processes by diving deep into the elements that make us human. IB Psychology uses biological, cognitive and social-cultural approaches to studying behavior as well as addressing abnormality and lifespan development. Students will also do a research project and carry out all elements of a psychological experiment including planning and reporting. This course emphasizes writing, literacy and analysis while preparing college bound students to be better writers, readers and thinkers.

Psychology, #2138

Length: One Semester *Grades: 10,11,12*
Prerequisite: None *Credit: .5 Social Studies*
NCAA Approved

While introducing the basic principles of psychology, this course aims at giving the student an understanding of human behavior and in the process, a better understanding of their own behavior. The following are major topics in the course: thinking like a psychologist, memory, neuroscience, learning, social psychology, consciousness, emotion, and personality.

Psychology of a Serial Killer, #2142

Length: One Semester *Grades: 11,12*
Prerequisite: None (Any previous psychology class is preferred) *Credit: .5 Social Studies*
NCAA Approved

Those who exhibit deviant behavior and criminality are often called psychopaths. The most reckless of these society endures as serial killers. Student enrolled in this elective course will be engaged in ACT preparation through the study of abnormal psychology and criminal deviance. Major units of study include abnormality, brain function, genetics, environmental factors, and sanity. Specific skills that will be addressed in this course, and which are crucial to success on the ACT Test include literacy, critical thinking, writing, and test taking strategies. This course is currently available to juniors and seniors for the 2019-2020 school year and will be taught at a college preparatory level.

***Introduction to Sociology, #2146**

Length: One Semester *Grades: 11,12*
Prerequisite: None *Credit: .5 Social Studies*
NCAA Approved

This course offers students an opportunity to earn 3 college credits and to prepare for college level coursework. The class examines broad social topics such as culture, socialization, mass media, crime, financial/racial/gender inequality, global inequality, family, government, economy, religion, education, environment, health and ageing. The topics considered in this class are current and relevant. Students write journals and papers, participate in discussions and field trips, and learn from one another and from our guest speakers.

Theatre

Course	Credit	9	10	11	12
Acting Directing and Playwriting, #1684	.5		X	X	X
Advanced Acting and Directing, #1699	.5			X	X
Advanced Play Writing ,#1673	.5			X	X
*Great Plays, #1674	.5		X	X	X
*IB Theatre Arts Year 1, #1690 HL/SL	1			X	X
*IB Theatre Arts Year 2, #1691 HL/SL	1				X
Stagecraft 1: Introduction to Technical Theatre, #2833	1		X	X	X
Introduction to Theatre Performance and Production, #1628	1	X	X	X	X
Stagecraft II: Theatrical Design and Production, #1657	1			X	X
*Stagecraft III: Independent Study Stagecraft, #2837	1				X

^This course earns an additional .25 point per semester when completed at the A or B level for Academic Awards Credit.
***Starting with the Class of 2024, this course will be used for the Laude Honor System.**

These curricular classes are supported by a strong co-curricular theatre production schedule. Students have the opportunity to apply what they have learned in class immediately to projects and performances in the school community.

Theatre Courses

Theatre is a form of live communication. The study of the theatre making process involves learning what planning and preparation is involved before this communication with an audience occurs. Studying the technical aspects of the process happens in the Theatre production Courses. Studying the other aspects of the process happens in the Theatre performance Courses. Studying the impact on an audience happens in Great Plays.

Introduction to Theatre Performance and Production, #1628

Length: Two Semesters — *Grades: 9,10,11,12*
Prerequisite: None — *Credit: 1 Elective*

In this class students will learn all of the artistic and technical positions involved in producing plays and musicals. Throughout the course students will be introduced to basic acting exercises and techniques, and collaborative ensemble work. Students will also learn the basic technical aspects of stage crew, running lights and sound, applying basic theatrical make-up, and other aspects of production.

*Great Plays, #1674

Length: One Semester — *Grades: 10,11,12*
Prerequisite: None — *Credit: .5 English*

This course counts as English Literature credit. From page to stage, find out what makes a great play a great experience. This investigation of great theatrical literature looks at all components of the production process with an emphasis on understanding dramatic structure. Analysis from the audience's perspective looks at the difference between a great play, a great performance, and a great production. Theatre literature and history will be explored to determine what choices communicate best to live audiences.

***IB Theatre Arts SL/HL Year 1, #1690**
Length: Two Semesters *Grades: 11,12*
Prerequisite: None *Credit: 1 Elective*

***IB Theatre Arts SL/HL Year 2, #1691**
Length: Two Semesters *Grades: 12*
Prerequisite: IB Theatre Arts Year 1 *Credit: 1 Elective*

Studying theatre performance and production aspects from a Global perspective happens in IB Theatre l and ll and in World Theatre Studies. These courses examine Theatrical Traditions other than the musical and realism. Using a hands-on and research based approach students study theatre theorists/practitioners and theatre companies that devise original work. These courses emphasize ensemble and collaboration in the creation of the hands-on projects. Expand your perspective of theatre are practiced worldwide.

Theatre Performance Courses

Acting, Directing, and Playwriting, #1684
Length: One Semester *Grades: 10,11,12*
Prerequisite: Introduction to Theatre, #1628 or consent of instructor *Credit: .5 Elective*

Acting, Directing and Playwriting is a course for the curious or serious theater student who wishes to learn more about the actor's, directors, and playwright's process to production and the skills needed to improve that process. Ensemble acting, improvisation, scene and character analysis are combined with vocal, movement, and focus exercises for the actor. A basic understanding of directing and playwriting are explored using hands-on activities.

Advanced Acting and Directing, #1699
Length: One Semester *Grades: 11,12*
Prerequisite: Acting, Directing and Playwriting #1684 *Credit: .5 Elective*

The director's vision will be studied in scene and text work with an emphasis on researching the "world of the play". The 'vision' will be presented in visual and written form before work with the actors begins. Work with the actors will result in a classroom performance ready product. Students should plan on participating as both actor and director.

Advanced Playwriting, #1673
Length: One Semester *Grades: 11,12*
Prerequisite: Acting, Directing and Playwriting #1684 *Credit: .5 Elective*

Writing techniques for the theatre will be explored with an emphasis on creating actable moments. Proper script format will be used in a variety of writing assignments from monologues to short plays using text and non-text writing. Working from different types of stimuli the student will create a draft script and work with actors and a director before rewriting another draft. The end product is a classroom staged reading of one selected project written during the semester.

Theatre Production Courses

Stagecraft I #2833
Length: Two Semesters *Grades: 9,10,11,12*
Prerequisite: Introduction to Theater, *Credit: 1 Elective*
Performance and production, #1628 or consent of instructor

Students will not only study the theory of stage lighting, sound production, set design, makeup and/or costumes.; but, they will also receive considerable hands-on training in the practical application of those theories. Students will be responsible for the lighting and sound of all school-related activities and will be expected to work on set design and construction for all school plays. Therefore, each student will be expected to work beyond the seventh period

performing some of these duties.

Stagecraft II: Theatrical Design and Production, #1657

Length: Two Semesters *Grades: 11,12*
Prerequisite—successful completion of Stage Craft 1 *Credit: 1 Elective*
Introduction to Technical Theatre, #2833 and consent of instructor.

Students will specialize in two technical theater production areas and be responsible for design and implementation of a technical aspect for concert and/or play production at the school. Hands-on training is complemented with theory and practice in the production area. Extensive after school work is required for this course. Students will head technical crews and be responsible for running crew assignments.

***Stagecraft III: Independent Study Stagecraft, #2837**

Length: One or Two Semesters *Grades: 12*
Pre-Requisites-senior standing, successful completion of *Credit: 1 Elective*
the above Stage Craft 1 and 2 technical theater classes,2833,
1657 and consent of instructor.

In-depth study of technical theater designed with course instructor.