

**MATERIALS  
FROM  
ATTACHING  
DISTRICT**

**SCHOOL DISTRICT OF ELMBROOK SCHOOL BOARD  
RESOLUTION AUTHORIZING ISSUANCE OF AN ORDER**

**WHEREAS**, a meeting of the school board of the School District of Elmbrook was held on February 7, 2023, and

**WHEREAS**, a petition has been filed with the clerk of the school board, pursuant to s. 117.11-13, Wis Stats., proposing the parcels contained in and around Black Forest Knoll and Summit Lawn Estate Subdivisions as outlined and attached to the January 6, 2023 Petition to Alter School District Boundaries submitted by Angela Paap and Katie Valdovinos.

**WHEREAS**, a public hearing has been held on the proposed reorganization by the school board pursuant to s. 117.11-13, Wis Stats.,


**NOW, THEREFORE, BE IT RESOLVED** that an order be issued and filed (granting or denying) the petition upon which said hearing has been held.

Motion by: Jennifer Roskopf

Seconded by: Jean Lambert

Vote: Yes 4 No 0

Dated this 7<sup>th</sup> day of February, 2023

  
Linda A Boucher Clerk  
School District of Elmbrook

**CERTIFICATE OF TRUE COPY**  
School Board Resolution

State of Wisconsin                    )  
  )ss  
Waukesha County                )

I, Christy Westfall secretary of the meeting of the Elmbrook School District, following a school board vote for the purpose of adopting a resolution, hereby certify that I have carefully compared the attached copy of the:

- Resolution Altering School District Boundaries  
 Resolution of Denial  
*(check one)*

made and filed by said school board on February 7, 20 23, with the original which is now on file in the district office of Elmbrook School District as required by law. I further certify that the same is a true and correct copy of said original.

Signed this 8 day of February, 20 23

Linda A Boucher, Clerk  
Elmbrook School District

NOTE: The original Resolution Altering School District Boundaries or Resolution of Denial and the original of all other documents should be kept on file in the school district office.

This certificate should be attached to a copy of the Resolution Altering School District Boundaries or the Resolution of Denial and mailed to:

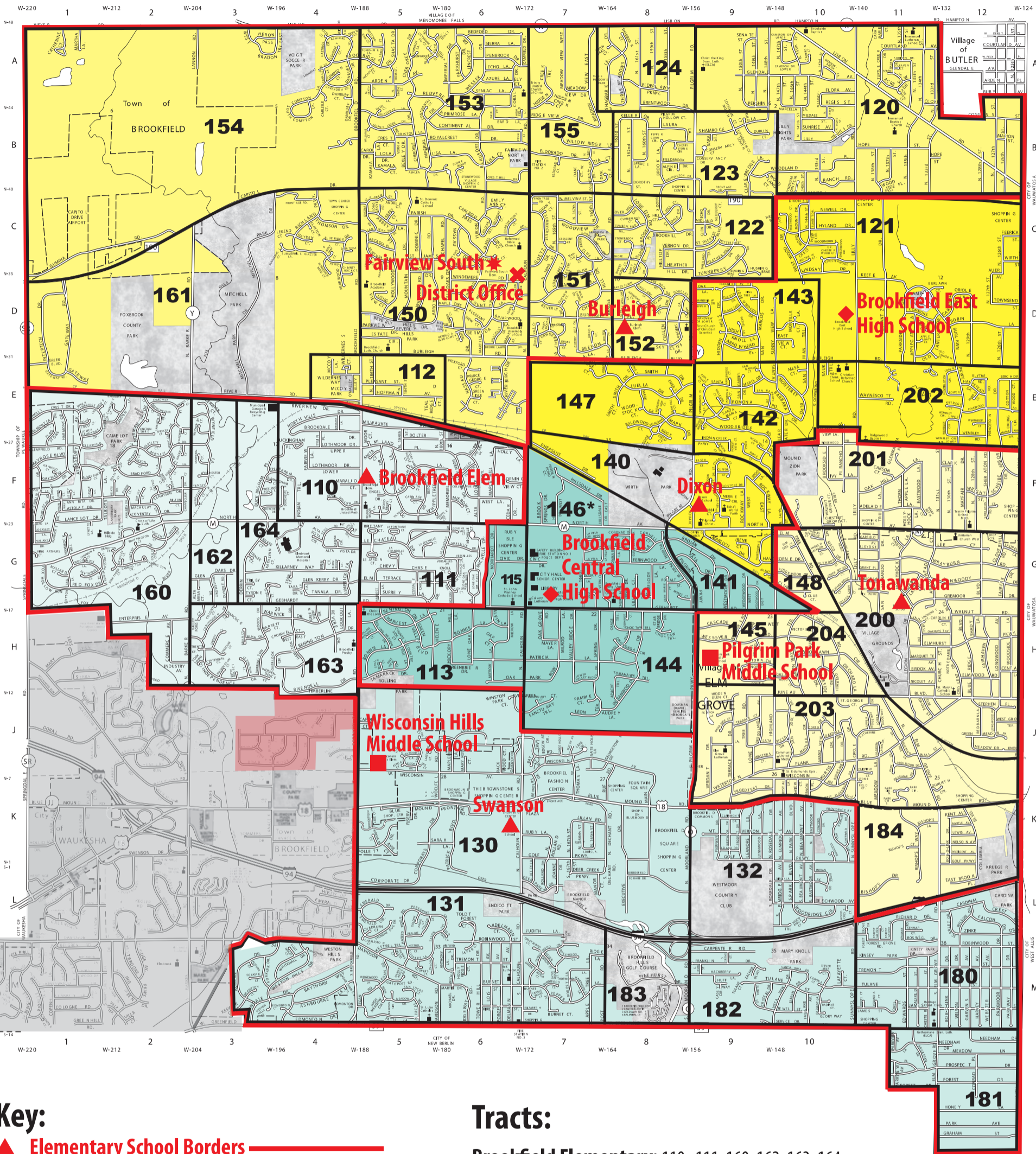
Secretary, School District Boundary Appeal Board  
Department of Public Instruction  
P.O. Box 7841  
Madison, WI 53707-7841

# District Boundary & Tract Map



JUNE 2010  
SCALE IN FEET  
0 600 1200 2400 3600 5200

PREPARED FOR CITY ENGINEER BY  
MILWAUKEE MAP SERVICE, INC.



- Key:**
- ▲ Elementary School Borders
  - Pilgrim Park Middle School (Yellow Area)
  - ◆ Brookfield East High School (Yellow Area)
  - Wisconsin Hills Middle School (Teal Area)
  - ◆ Brookfield Central High School (Teal Area)
  - ★ Fairview South (Special Education cooperative serving six counties)
  - ✘ District Office
  - Black Border Delineates Tracts

- Tracts:**
- Brookfield Elementary:** 110, 111, 160, 162, 163, 164
  - Burleigh:** 112, 120, 122, 123, 124, 150, 151, 152, 153, 154, 155, 161
  - Dixon:** 113, 115, 121, 140, 141, 142, 144, 143, 146\*, 147, 202
  - Swanson:** 130, 131, 132, 180, 181, 182, 183
  - Tonawanda:** 145, 148, 184, 200, 201, 203, 204

**Tract 146\* – Has the option to attend Pilgrim Park & Brookfield East but must provide own transportation.**

Questions about boundaries should be directed to:  
Elmbrook Schools 262-781-3030



**Tuesday, February 7, 2023**

**Special Board of Education Meeting, 3:00 p.m., District Office, Lancer/Spartan Board Room**

**District Office  
3555 North Calhoun Road  
Brookfield, WI 53005**

**Note: Agenda items could be taken out of order.**

## **1. Opening of Meeting**

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### **Subject                      A. Call to Order**

Meeting                      Feb 7, 2023 - Special Board of Education Meeting, 3:00 p.m., District Office, Lancer/Spartan Board Room

Category                      1. Opening of Meeting

Type                              Procedural

I'd like to call this meeting to order.

The required public notice of this meeting was sent to Community Newspapers, Inc. and metropolitan press on February 3, 2023 and posted on the doors of the District Office. Additionally, meeting notices and agendas were posted on the district website and distributed to the City of Brookfield and the Village of Elm Grove for posting.

Let the roll call show that all Board members are present (with the exception of...)

### **Subject                      B. Pledge of Allegiance**

Meeting                      Feb 7, 2023 - Special Board of Education Meeting, 3:00 p.m., District Office, Lancer/Spartan Board Room

Category                      1. Opening of Meeting

Type                              Procedural

The Board of Education and attendees will recite the Pledge of Allegiance.

I pledge allegiance to the flag of the United States of America and to the Republic for which it stands, one Nation under God, indivisible, with liberty and justice for all.



**Subject C. Approval of Agenda**

Meeting Feb 7, 2023 - Special Board of Education Meeting, 3:00 p.m., District Office, Lancer/Spartan Board Room

Category 1. Opening of Meeting

Type Action, Procedural

Recommended Action I move approval of the agenda as presented.

File Attachments  
[Optional Sign In Sheet.pdf \(42 KB\)](#)

**2. Action Items**

**Subject A. Resolution Authorizing the Issuance of an Order regarding a Petition to Alter Boundaries**

Meeting Feb 7, 2023 - Special Board of Education Meeting, 3:00 p.m., District Office, Lancer/Spartan Board Room

Category 2. Action Items

Type Action, Discussion

Recommended Action Two potential motions can be considered:  
 1) Move to approve the resolution granting the reorganization requested in the petition filed on January 19, 2023, and ordering detachment of the territory described in said petition from the School District of Waukesha and attachment of the territory to the School District of Elmbrook.  
 2) Move to approve the resolution denying the reorganization requested in the petition filed on January 19, 2023 and dismissing the petition.

**Presentation:** The School District of Elmbrook received notification from the School District of Waukesha that a Petition to Alter School District Boundaries was filed on January 6, 2023. The petitioners, Angela Paap and Katie Valdovinos, or their representative, may provide additional information regarding their petition.

**Background/Context:** A petition to detach parcels in and around Black Forest Knoll and Summit Lawn Estate Subdivisions from the School District of Waukesha and to attach the parcels to the School District of Elmbrook has been filed by Angela Paap and Katie Valdovinos. The lots are located in the Town of Brookfield.

Chapter 117 of the Wisconsin Statutes provides for different procedures for school district reorganization depending on the nature of the territory being detached/attached. A reorganization involving a "small territory" may be initiated by either the owners of the territory or the school boards to which the territory is to be detached/attached. A territory is defined as small if: 1) The assessed valuation of the territory proposed to be transferred, divided by its assessment ration, is less than 7% of the equalized valuation of the school district from which it is proposed to be detached, and 2) Less than 7% of the enrollment of the school district from which the territory is proposed to be detached resides in the territory proposed to be transferred. The 2022 value of the property is \$46,444,500 and the assessment ratio is 97.05%. The number of pupils residing in the territory on the most recent 3rd Friday in September or 2nd Friday in January for categories of students to include is 37.

Wis. Stat. 117.15 sets forth criteria by which school boards must evaluate school district reorganization requests. The following items should be considered when assessing the effect of the reorganization on the educational welfare of all the children residing in all of the affected school districts:

1. The geographical and topographical characteristics of the affected school districts, including the estimated travel time to and from school for pupils in the school districts.
2. The educational needs of all of the children residing in the affected school districts, the educational programs currently offered by each affected school district and the ability and commitment of each school district to meet those needs and continue to offer those educational programs.
3. If territory is proposed to be detached from one school district and attached to an adjoining school district, whether the proposed detachment will have any adverse effect on the program currently offered by the school district from which the territory is proposed to be detached, including both curricular and extracurricular aspects of that program.
4. The testimony of and written statements filed by the residents of the affected school districts.
5. The estimated fiscal effect of the proposed reorganization on the affected school districts, including the effect of the apportionment of assets and liabilities.
6. Whether the proposed reorganization will make any part of a school district's territory noncontiguous.
7. The socioeconomic level and racial composition of the pupils who reside or will reside in territory proposed to be detached from one school district and attached to an adjoining school district or in a school district proposed to be dissolved; the proportion of the pupils who reside in such territory who are children at risk; and the effect that the pupils described in this paragraph will have on the present and future socioeconomic level and racial composition of the affected school districts and on the proportion of the affected school districts' enrollments that will be children at risk.
8. Other appropriate factors.

Per Wis Stats 117.12(3) "Before adopting a resolution under this subsection that grants or denies the reorganization, each school board shall give the electors and owners who signed the petition under sub. (2) an opportunity to meet with the school board to present their reasons for the proposed reorganization. Failure of a school board to adopt a resolution before March 1 either ordering or denying the reorganization constitutes a denial of the reorganization by the school board."

**Budget:** The property value of the territory would be added to the overall value of the district and the students residing in the territory would be counted as resident students for revenue limit and state aid purposes if they attended school in the district or if they open enrolled to another public school district.

#### File Attachments

[BoundaryMap2022TractsNewLogosmall.pdf \(15,263 KB\)](#)

[January 6, 2023 Boundary Appeal.pdf \(3,798 KB\)](#)

[Resolution Authorizing Issuance of an Order - 2-7-23.pdf \(22 KB\)](#)

### 3. Adjournment

#### Subject

#### A. Motion to Adjourn the Meeting

#### Meeting

Feb 7, 2023 - Special Board of Education Meeting, 3:00 p.m., District Office, Lancer/Spartan Board Room

Category	3. Adjournment
Type	Action
Recommended Action	I move to adjourn this meeting.





Special Board of Education Meeting  
District Office Board Room  
3555 N. Calhoun Road, Brookfield, WI 53005  
February 7, 2023

Present: Lambert, Roskopf, Sun, Wheeler, Sobocinski  
Absent: Boucher, Lim, Hassan

Board President Scott Wheeler called the meeting to order at 3:01 p.m. according to Wis. Stats. 19.85. The Board of Education recited the Pledge of Allegiance. **Motion** by Jean Lambert to approve the agenda as presented. The motion was seconded by Jennifer Roskopf and carried on a voice vote.

**Action Items**

**Resolution Authorizing the Issuance of an Order regarding a Petition to Alter Boundaries –**

The petitioners, Angela Paap and Katie Valdovinos provided additional information regarding their petition.

**Motion** by Jennifer Roskopf to approve the resolution granting the reorganization requested in the petition filed on January 6, 2023, and ordering detachment of the territory described in said petition from the School District of Waukesha and attachment of the territory to the School District of Elmbrook as presented in BoardDocs here: <http://go.boarddocs.com/wi/elmbrook/Board.nsf/goto?open&id=CN9U8L7383AD>. The motion was seconded by Jean Lambert. The motion carried on a roll call vote with Sun, Lambert Wheeler, Roskopf as yes.

**Motion** by Jean Lambert to adjourn this special meeting. The motion was seconded by Jian Sun and carried on a voice vote. The meeting adjourned at 3:55 p.m.

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Scott Wheeler, Board President

Sample 3rd Grade Schedule for Elmbrook Elementary Schools

	Monday	Tuesday	Wednesday	Thursday	Friday
8:35-9:15	Aleks/Dreambox/Number Corner/Cursive/Typing/Morning Mtg.				
9:15-9:45	WIN	WIN	WIN	WIN	WIN
9:45-11	Reading	Reading	Reading	Reading	Bobcat Block Reading
11:00-12:00	Gym	Music	Art	Music	Gym
11:00-11:30	Team Building	Gym		Library	Catch-up/HIT
12:05-12:45	Lunch/Recess	Lunch/Recess	Lunch/Recess	Lunch/Recess	Lunch/Recess
12:45-2:00	Math	Math	Math	Math	Math
2:00-2:15	Recess	Recess	Recess	Recess	Recess
2:15-3:15	Writing	Writing	Writing	Writing	Science/Social Studies
3:15-3:35	Read Aloud	Read Aloud	Read Aloud	Read Aloud	Guest Reader



# MIDDLE SCHOOL Academic & Career Planning Guide

Pilgrim Park Middle School | Wisconsin Hills Middle School





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The mission of the School District of Elmbrook is to educate and inspire every student to think, to learn and to succeed.

The District's Vision and Core Values inspire the work of our students, staff and community as we prepare all students for life, college and career.

**Elmbrook Scholars are...**

**Purpose-Driven Change Agents:**

I know who I am. I understand my strengths and passions, and I know I can make a positive difference in the world. I empower and support those around me, and I am constantly finding ways to improve myself.

**Responsible Citizens:**

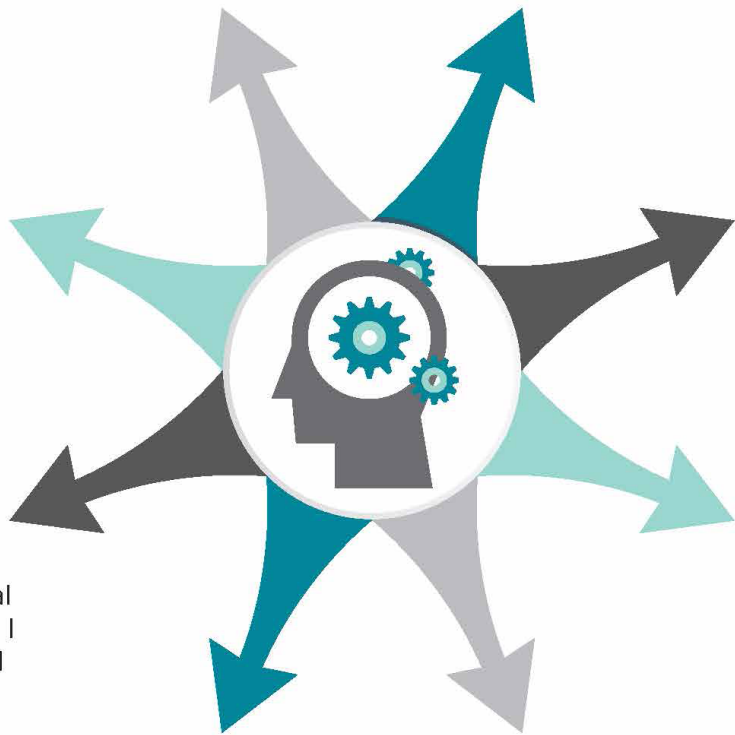
I can think, feel, and act with respect for myself and others. I understand and value other perspectives and a collaborative approach. I can think critically and creatively about the world around me.

**Accomplished Communicators:**

I clearly convey my thoughts, questions, emotions, and solutions in multiple settings and formats. I am an active listener and seek to understand.

**Emotionally Intelligent:**

I am aware of my emotions and sensitive to those of others. I can work effectively with a variety of people.



**Resilient:**

I embrace challenges, persevere and adapt when faced with internal and external obstacles. I am optimistic that I will find solutions to move forward.

**Kind & Grateful:**

I am gracious, caring, and kind to others. I demonstrate empathy and compassion for those around me. I am thankful for new experiences and opportunities.

**Intellectually Curious:**

I have genuine wonder and inquire about the world around me. I take initiative to advance my knowledge and skills. I am committed to lifelong learning.

**Flexible & Adaptable:**

I can adapt to change. I seek and am responsive to feedback. I am able to work effectively in a variety of environments. I value other people's strengths and learn from them.



# ACADEMIC & CAREER PLANNING

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## PROCESS OVERVIEW ..... 5

- Student Outcomes by Grade Level
- Math Course Progressions &  
Recommended Criteria for Grade 8 Math Classes

# ACADEMIC & CAREER PLANNING OVERVIEW

Academic and Career Planning (ACP) is a self-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post-secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

## Academic & Career Planning is:

- A student driven vision of personal future goals
- Based on deep understanding and reflection of strengths, interests, values and learning styles
- Connecting goals to collect career exploration and planning and preparing a personal plan for achieving their vision and goals. Students build and grow their plan from one year to the next as they practice setting goals and revising their own Academic and Career Plan.
- Supported by meaningful adult relationships (staff, counselors, parents/guardians, community members)



# STUDENT OUTCOMES BY GRADE LEVEL

## 6<sup>th</sup> GRADE

### IN SIXTH GRADE, I CAN...

- create a short-term goal for myself that considers evidence I collect about who I am right now and where I want to go in my future
- identify ways to grow as a learner
- effectively summarize who I am, where I am going, and what I can do to get there in a written format
- explain my self-reflection and future thoughts with adults who support my success

## 7<sup>th</sup> GRADE

### IN SEVENTH GRADE, I CAN...

- analyze my current short-term academic and career goal for myself and refine it in light of who I am right now and where I want to go in my future
- utilize my knowledge of self to define what success means to me
- select an area in which I need to grow as a learner and plan how to improve in that area
- appraise post-secondary training and educational options to strengthen employability/professional skills

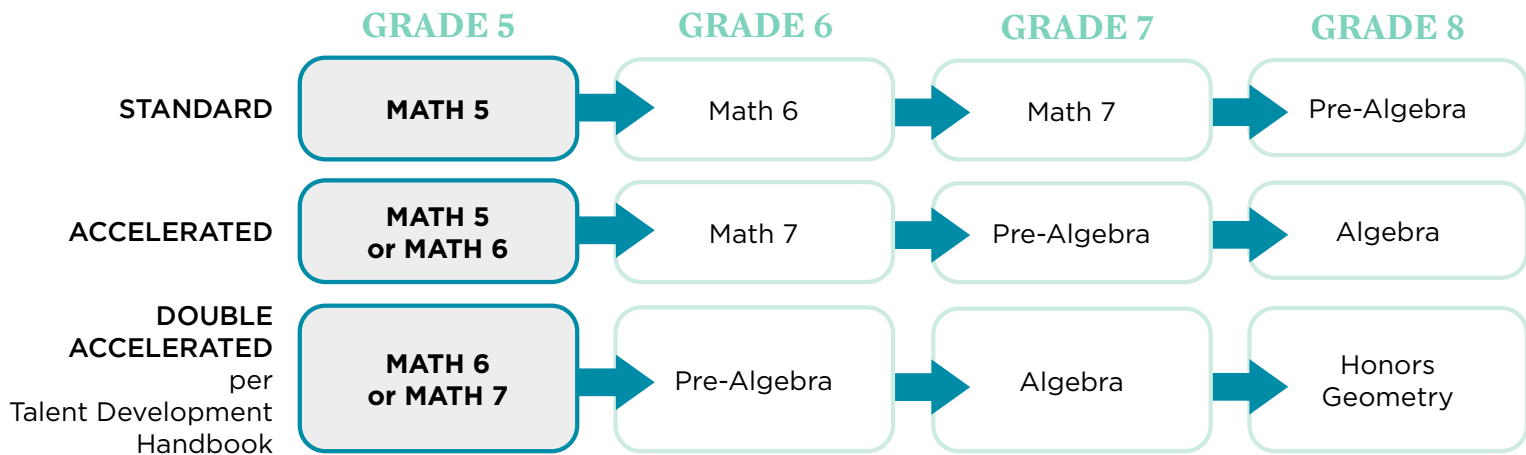
## 8<sup>th</sup> GRADE

### IN EIGHTH GRADE, I CAN...

- critique and adjust my short-term academic and career goal for myself in light of further evidence I have collected about who I am right now and where I want to go in my future
- accurately assess where I am as a learner and describe ways to continue to grow
- evaluate resources and strategies and define what I need to support my preparation and transition to high school
- effectively synthesize and then communicate who I am, where I am going, and what I can do to get there
- utilize my self-reflection to articulate my growth and future thoughts to adults who support my success



# MATH COURSE PROGRESSIONS



Recommendations for a student's math course is based on standardized assessment data and class performance data from the student's seventh grade math class.

Considerations to inform acceleration decision making include the following:

- Consistent MAP scores above 90% for single acceleration
- Semester report card grades (consistent A's typical for acceleration)
- Level of independence working through math problems
- Teacher input and comments regarding math classroom performance

## RECOMMENDED CRITERIA for accelerated math coursework

### Math 7 Taken as a 6th Grade Student

- Grade 5 MAP Fall RIT score of 229 or above and Winter RIT score of 235 or above
- Grade 5 math MAP fall RIT percentile and Winter RIT percentile (90%+ is typical for Math 7)
- Take into consideration trend in MAP performance throughout your child's elementary experience
- Report card feedback in the Exceeds range
- Perseverance in working through challenging math problems
- Teacher feedback and comments indicating strong math classroom performance

### Pre-Algebra Taken as a 6th Grade Student

- Must have met Double Acceleration Criteria per Talent Development Handbook: <https://www.elmbrookschools.org/programs-services/talent-development>
- Has had an accelerated math experience in grade 5
- Has a recommendation from the elementary Teaching and Learning Specialist based on the student's performance in the accelerated math course

### Pre-Algebra Taken as a 7th Grade Student

- Recommendation from Math 7 teacher and/or successful completion of Math 7
- Grade 6 MAP Fall RIT score of 235 or above and Winter RIT score of 241 or above

### Algebra Taken before 8th Grade

- Recommendation from Pre-Algebra teacher and/or successful completion of Pre-Algebra
- Students new to the district must have completed a course comparable to Pre-Algebra and complete additional testing as determined by the placement team
- Grade 7 MAP Fall RIT score of 243 or above and Winter RIT score of 247 or above

### Honors Geometry Taken before 8th Grade

- Recommendation from Algebra teacher and/or successful completion of Algebra
- Students new to the district must have completed a high school level algebra course and/or complete additional testing as determined by the placement team



# COURSE OFFERINGS

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- Procedure and Timetable for Scheduling Courses & Registration
- 6th Grade Core Course Descriptions
- 6th Grade Elective Course Descriptions
- 7th Grade Core Course Descriptions
- 7th Grade Elective Course Descriptions
- 8th Grade Core Course Descriptions
- 8th Grade Elective Course Descriptions

# Procedure & Timetable for Scheduling Courses & Registration

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Students receive course selection material for the next school year at the beginning of second semester. Parents and students are encouraged to familiarize themselves with basic requirements, review course descriptions, and be alert to prerequisites. Students and parents may direct questions regarding specific courses to teachers and counselors.

A variety of factors considered in determining each student's house placement. Each house is made up of a heterogeneous group of students with a range of learning needs. Parents may submit information in writing regarding their son or daughter which might help with the selection of house placement or the general scheduling of their child to their school counselor by April 1st. Specific requests for houses/teachers will not be honored.

Parents and students are asked to list elective choices and alternates. Every attempt is made to give students their first choices; however, students may be scheduled into alternate choices if conflicts occur. **Please choose your elective classes carefully.** Teachers are assigned elective classes according to the number of students choosing their class. It is **very difficult** to make changes after this has taken place, as teacher assignments must be made before the school year begins. **The only way an elective class can be changed is if there is space available and if the change does not cause another class to be canceled.**

# 6TH GRADE

# Core Courses

## Academic & Career Planning 8017

**Course Length** ACP curriculum is delivered throughout the year at various time frames

Middle School Academic and Career Planning provides the foundation for students to explore options as they commence their academic and career planning during their middle school years. The ACP process personalizes each student's educational experience while providing opportunities to explore and set short-term goals in preparation for his/her future. Throughout the ACP process, students focus on four questions: Who Am I?, Where am I Going?, How do I Get There?, and What can I do now? Exploring these questions assists students in understanding their strengths, interests, potential career pathways, and potential post-secondary education.

## Choices and Wellness 6 1706

**Course Length** Choices and Wellness curriculum is delivered throughout the year at various time frames

Students will develop a greater sense of respect and responsibility with various topics regarding life choices and wellness. This course includes the Human Growth and Development curriculum. Parents are notified annually of lessons specific to Human, Growth, and Development.

## Language Arts 6 1806

**Course Length** Year

Sixth grade Language Arts focuses on the development of students as readers and authors by having them engage with the following genres: personal narrative, persuasive essay, literary argumentative essay, research-based informational writing, poetry. Reading instruction emphasizes the application of reading strategies to comprehend a variety of texts. Writing instruction focuses on the writing process, as well as the appropriate use of vocabulary, grammar, usage, and mechanics in their writing and speech.

## Math 6 2206

**Course Length** Year

In this course students will understand ratio concepts and use ratio reasoning to solve problems, apply and extend previous understandings of multiplication and division to divide fractions by fractions, apply and extend previous understandings of numbers to the system of rational numbers, apply and extend previous understandings of arithmetic to algebraic expressions, reason about and solve one-variable equations and inequalities, and represent and analyze quantitative relationships between dependent and independent variables. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Math 7 2207

**Course Length** Year

**Prerequisites** Please see "Recommended Criteria for Accelerated Math Coursework" on page 7 of this guide

In this course students will analyze proportional relationships and use them to solve real-world and mathematical problems; apply and extend previous understandings of operation with fractions to add, subtract, multiply, and divide rational numbers; use properties of operations to generate equivalent expressions; and solve real-life and mathematical problems using numerical and algebraic expressions and equations. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Science 6 1406

**Course Length** Year

The emphasis for the sixth grade science program is based on inquiry, design thinking, engineering principles and the presentation of scientific principles as it relates to the students ever changing world. The students will explore and experience a variety of areas within the field of science including: Earth systems (weather), Electricity/Magnetism, Space and Ecology through the use of reading, research, observation, technology, discussion and projects. All units will include problem solving, data collection, analysis and interpretation of data, and real-life application.

## Social Studies 6 1506

**Course Length** Year

The Interconnected World and Ancient Civilizations 6th grade historians learn how contributions of ancient civilizations impact societies, both past and present in our interconnected world. Through the integrated study of economics, geography, history, political science and the behavioral sciences, students apply skills of inquiry, collaboration, decision making and problem solving. The chrono period covered is Ancient Civilizations to the 1500s.

# 6TH GRADE Elective Courses

## THE 6TH GRADE “WHEEL”

Our students’ middle school elective programming can provide opportunities for students to experience challenging, relevant, and integrated learning that builds upon and deepens the core curriculum, assists in exploring areas of interest, and provides exposure to potential 21st century careers.

In 6th grade, students experience “Wheel” courses that rotate every quarter so that they gain valuable exposure to multiple elective strands:

- Applied Technology and Engineering,
- Visual and Performing Arts,
- Information Technology and Entrepreneurship, and
- Health Sciences and Wellness.

Ignite! is an embedded course within our “Wheel” courses that challenges students to think creatively and work collaboratively to solve challenging problems.

**In addition, all 6th grade students are required to take:**

- Physical Education course
  - Music course (Band, Orchestra, or Chorus)
- Students who elect to take two music courses will share time between the courses within the assigned time block

A visual representation of the 6th grade elective experience is below and course descriptions on the following page:

Elective Strands	Applied Technology & Engineering	Visual & Performing Arts	Information Technology & Entrepreneurship	Health Science and Wellness
6th Grade Elective Courses	Ignite! (embedded into all “Wheel” classes)			
	Technology, Engineering and Manufacturing (quarter)	Studio Art (quarter)	Innovators & Makers (quarter)	Health Science and Wellness (quarter)
	Music: Band, Orchestra or Choir (Year Long - A Days)		Physical Education (Year Long - B Days)	

## APPLIED TECHNOLOGY & ENGINEERING

### Technology, Engineering and Manufacturing 6 w/Ignite! 2106

**Course Length** Quarter

This course asks students to create, design, build and discover! Students are introduced to and use a design thinking process to solve problems. Students use industry standard 3D modeling software to create virtual images of their designs and produce a portfolio to showcase their creative solutions. Students will bring the design process full circle when they build or create the projects they have designed.

## HEALTH SCIENCE & WELLNESS

### Health Science & Wellness 6 w/Ignite! 5006

**Course Length** Quarter

Students will develop a greater sense of respect and responsibility with various topics regarding healthy living and personal wellness. The importance of healthy diet and fitness will be explored, and students will have the opportunity to receive their American Red Cross - babysitting certification.

### Physical Education 6 (PE 6) 1306

**Course Length** Year, Alternating Days (A/B)

In this course students will be introduced to a variety of activities that will focus on fitness, practice introductory skills, and develop self-sufficiency and social interaction. Students will have the opportunity to be active in 3 primary units: Cooperatives, Fitness Development, and Motor Skills and Movement Patterns.

## IGNITE!

### Ignite! 8018

**Course Length** Embedded with all "wheel" classes

Ignite! equips all students with the tools and skills necessary for academic and life success. The course exposes students to a design-thinking approach to problem solving, a skill that is embedded within all middle school elective offerings.

*\*Please note that this course is graded pass/fail, and is embedded within all 6th grade "Wheel" courses.*

## INFORMATION TECHNOLOGY & ENTREPRENEURSHIP

### Innovators & Makers 6 w/ Ignite! 4006

**Course Length** Quarter

This course will allow students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects. Throughout the course, students will learn about programming for the physical world by blending hardware design and software development. They will design and develop a physical computing device, interactive art installation, and plan and develop code for micro-controllers that bring their physical designs to life. Physical computing projects will promote student awareness of interactive systems and broaden their understanding of abstract computer science concepts through meaningful and authentic applications.

## VISUAL & PERFORMING ARTS

### Band 6 7006

**Course Length** Year, Alternating Days (A/B)

Band classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music.

### Chorus 6 7016

**Course Length** Year, Alternating Days (A/B)

Middle School Choir provides an opportunity for students to study vocal performance through the study of music in a variety of genres and styles including, classical, contemporary, pop, folk, jazz, musical theater, and the study of a solo off of the WSMA solo/ensemble list. Throughout the day to day rehearsals, students will study the music in regards to historical context, music theory, culture, and the aesthetic of the piece. The overall goal of the music department is to facilitate student growth towards independent musicianship, creating inquisitive and creative lifelong musicians and learners.

## Strings/Orchestra 6

7026

**Course Length** Year, Alternating Days (A/B)

Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students' understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student's experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Small group instruction allows for deeper personalization of the orchestra curriculum and encourages a stronger teacher-student relationship that allows for more frequent formative feedback to the student. The combination of large and small ensemble instruction creates the balance of maintaining a very high quality performing orchestral ensemble while encouraging students to make deeper personal connections with the curriculum, thus empowering them to continue their musical learning outside of the classroom.

## Studio Art 6

3006

**Course Length** Quarter

Studio Art is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize design thinking as a creative problem solving process in order to create artworks using drawing, painting, collage, and printmaking in a professional studio environment.

# 7TH GRADE Core Courses

## Academic & Career Planning **8017**

**Course Length** ACP curriculum is delivered throughout the year at various time frames

Middle School Academic and Career Planning provides the foundation for students to explore options as they commence their academic and career planning during their middle school years. The ACP process personalizes each student's educational experience while providing opportunities to explore and set short-term goals in preparation for his/her future. Throughout the ACP process, students focus on four questions: Who Am I?, Where am I Going?, How do I Get There?, and What can I do now? Exploring these questions assists students in understanding their strengths, interests, potential career pathways, and potential post-secondary education.

## Choices and Wellness 7 **1707**

**Course Length** Choices and Wellness curriculum is delivered throughout the year at various time frames

Students will develop a greater sense of respect and responsibility with various topics regarding life choices and wellness. This course includes the Human Growth and Development curriculum. Parents are notified annually of lessons specific to Human, Growth, and Development.

## Language Arts 7 **1807**

**Course Length** Year

Seventh grade Language Arts emphasizes a rigorous approach of the integration of reading and writing strategies to develop students as authors by having them engage with the following genres: realistic fiction, historical documentary, research-based argumentative essay, literary analysis, poetry, and memoir. Students will further develop proficiency in organizing ideas, elaborating, improving sentence fluency, increasing word choice, and the use of conventions.

## Math 7 **2207**

**Course Length** Year

In this course students will analyze proportional relationships and use them to solve real-world and mathematical problems; apply and extend previous understandings of operation with fractions to add, subtract, multiply, and divide rational numbers; use properties of operations to generate equivalent expressions; and solve real-life and mathematical problems using numerical and algebraic expressions and equations. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Pre-Algebra **1220**

**Course Length** Year

**Prerequisites** Math 7

In this course, students will work with radicals and integer exponents; understand the connections between proportional relationships, lines, and linear equations; analyze and solve linear equations and pairs of simultaneous linear equations; define, evaluate, and compare functions; use functions to model relationships between quantities; understand congruence and similarity using physical models, transparencies, or geometry software; and understand and apply the Pythagorean Theorem. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Science 7 **1407**

**Course Length** Year

The emphasis of the seventh grade science program is the presentation of scientific skills and content as they relate to the students' experiences. The units of study are divided into earth science, physics, cells and energy flow while incorporating the engineering and design process and inquiry throughout each unit.

## Social Studies 7 **1507**

**Course Length** Year

The Interconnected World and Early America  
7th grade Social Studies historians learn how contributions of early life in America impact societies, both past and present in our interconnected world. Through the integrated study of economics, geography, history, political science and the behavioral sciences, students apply skills of inquiry, collaboration, decision making and problem solving. The chrono period covered colonialism to 1900.



# 7TH GRADE Elective Courses

Our students' middle school elective programming can provide opportunities for students to experience challenging, relevant, and integrated learning that builds upon and deepens the core curriculum, assists in exploring areas of interest, and provides exposure to potential 21st century careers.

In 7th grade, students have the opportunity to select elective courses from our five elective area strands:

- Applied Technology and Engineering
- Visual and Performing Arts
- Information Technology and Entrepreneurship
- Health Science and Wellness
- World Languages

In addition, all 7th grade students are required to take a physical education course.

A visual representation of a 7th grade elective experience is below and course descriptions are on the following page:

Elective Strands	Applied Technology & Engineering	Visual & Performing Arts	Information Technology & Entrepreneurship	Health Science and Wellness	World Languages
7th Grade Elective Courses	Architecture and Construction	2D Art & Design	Master Chef Junior		French 1A (Year Long)
	Design and Modeling in a Fab Lab	3D Art & Design	Animation Studio	Medical Detectives	German 1A (Year Long)
	Engineering in Motion	Community Art	App Creators		Latin 1A (Year Long)
	Robotics and Automation	Visual Art	Social Media Marketing		Physical Education (Required, Year Long)
		Band (Year Long)		Spanish 1A (Year Long)	
	Woodworking	Choir (Year Long)	Video Game Academy	Physical Education (Required, Year Long)	World Language Plus
		Orchestra (Year Long)			Speak It!

All classes are held every other day and are semester-long unless otherwise noted.

## APPLIED TECHNOLOGY & ENGINEERING

*Note: All Applied Technology & Engineering courses are repeatable year after year, with the exception of Architecture and Construction. Architecture and Construction may be taken 7th or 8th grade, but not both.*

### Architecture and Construction 2050

**Course Length** Semester, Alternating Days (A/B)

Have you ever wondered how architects design homes? How about what is hidden behind the walls in your house or apartment? In this fast paced, engaging course, students will learn basic home design principles and construction techniques. This will be completed through the design of a small home as well as constructing a model home complete with subsystems like plumbing, electrical and HVAC. This course is not repeatable.

### Design and Modeling in a Fab Lab 2051

**Course Length** Semester, Alternating Days (A/B)

Have you ever dreamed of becoming an engineer or some type of designer? Then, this course is for you! Design and Modeling in a Fab Lab students discover the engineering design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply the design process throughout the unit to design solutions to various problems. Students will use a FabLab to bring their designs to life using 3D printers, laser engraver, CNC machines and vinyl cutters.

### Engineering in Motion 2052

**Course Length** Semester, Alternating Days (A/B)

Engineering design is brought to life in this exciting course where students will design and create prototypes of real life machines. Students combine their creativity with a design thinking process to build some of the fastest, strongest and coolest Co2 race cars, bridges, model rockets, hovercraft, and mousetrap cars ever seen.

### Robotics and Automation 2053

**Course Length** Semester, Alternating Days (A/B)

Students trace the development and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use VEX Robotics platform to design, build and program real world objects such as traffic lights, cars, toll booths and robotic arms.

### Woodworking 2054

**Course Length** Semester, Alternating Days (A/B)

Come join a class that will prepare you to design and construct a variety of woodworking projects. Learn the basics of woodworking from hand tools to power tools and take home some cool projects that you can say you made! We will show you how projects go from being an idea all the way through a completed piece of work. Discover things like how to layout and square a board. Then, learn how to join boards together to form your projects. Finally, learn about different finishing techniques commonly used in the industry.

## HEALTH SCIENCE & WELLNESS

### Master Chef Junior 5050

**Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

### Medical Detectives (PLTW) 5051

**Course Length** Semester, Alternating Days (A/B)

In this course, students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence to solve a community outbreak mystery. They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health. This course is not repeatable.

### Physical Education 7 (PE 7) 1307

**Course Length** Year, Alternating Days (A/B)

In this course, students will participate in a variety of activities that will focus on fitness, practice more advanced movement forms, and develop self-sufficiency and social interaction. The major emphasis of physical education is on life-long fitness development and wellness. Concepts of leadership, teamwork, responsibility, inclusion, positive attitudes, and an increased knowledge of physical activity and its effects on the body are emphasized. Students will have the opportunity to be active in 3 primary units: Cooperatives, Fitness Concepts, and Motor Skills and Movement Patterns.

## INFORMATION TECHNOLOGY & ENTREPRENEURSHIP

### Animation Studio 4050

**Course Length** Semester, Alternating Days (A/B)

Begin your journey to becoming an animator for companies like Disney, Dreamworks, and Universal by bringing your creativity and personal style to life using a variety of animation mediums. Students work individually as well as in small teams to create projects including but not limited to digital stop-motion, computer / 3D animation, and augmented reality. No previous experience needed!

### App Creators (PLTW) 4051

**Course Length** Semester, Alternating Days (A/B)

Businesses and individuals alike are making millions of dollars by developing apps that entertain, solve problems, and make life better. This class will get you well on your way to making your very own apps regardless of how much or how little previous coding experience you have had. Limited only by your imagination, you will have fun customizing your experience by developing apps that interest you while learning software engineering concepts. This course is not repeatable.

### Master Chef Junior 5050

**Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

### Social Media Marketing 4052

**Course Length** Semester, Alternating Days (A/B)

Go from social media zero to social media hero! "Social Media Marketing" focuses on strategies and techniques to utilize the power of YouTube-style videos to grow your personal and entrepreneurial online presence. Students work individually as well as in small teams to create projects including but not limited to music videos, movie trailers, news productions, and commercials.

### Video Game Academy 4053

**Course Length** Semester, Alternating Days (A/B)

Video games in school? Yes, you read that correctly! In this exciting class students have the opportunity to explore classic video games at an actual local arcade, modern video games, learn coding principles, and use their ideas to create their very own shareable online video game. This collaborative classroom experience concludes with a hackathon in which students showcase their finished "product". It makes NO difference if you're new to video game design or an advanced user, come join in the fun!

## VISUAL & PERFORMING ARTS

*Note: All visual and performing arts courses are repeatable year after year, but not twice in the same year.*

### 2D Art & Design 3050

**Course Length** Semester, Alternating Days (A/B)

2D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, digital art, and printmaking in a professional studio environment.

### 3D Art & Design 3051

**Course Length** Semester, Alternating Days (A/B)

3D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create 3 dimensional artworks using a variety of sculptural mediums such as; clay, cardboard, paper mache, plaster, found objects, recycled materials, etc

### Band 7 7007

**Course Length** Year, Alternating Days (A/B)

Band classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music.

## Chorus 7 7017

**Course Length** Year, Alternating Days (A/B)

Middle School Choir provides an opportunity for students to study vocal performance through the study of music in a variety of genres and styles including, classical, contemporary, pop, folk, jazz, musical theater, and the study of a solo off of the WSMA solo/ensemble list. Throughout the day to day rehearsals, students will study the music in regards to historical context, music theory, culture, and the aesthetic of the piece. The overall goal of the music department is to facilitate student growth towards independent musicianship, creating inquisitive and creative lifelong musicians and learners.

## Community Art 3052

**Course Length** Semester, Alternating Days (A/B)

Community Art is an art course designed for students who are looking to expand their art outside the classroom. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have the opportunity to collaborate with instructors and peers to create works of art that will have a positive impact on the community. Students will utilize a design thinking process to create artworks using traditional and non-traditional art forms in a professional studio environment.

## Visual Art 7 3037

**Course Length** Semester, Alternating Days (A/B)

Visual Art is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, and printmaking in a professional studio environment.

## Strings/Orchestra 7 7027

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Previous orchestra experience or consent of instructor

Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences – creating, performing, responding to, and making connections to music – ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students' understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student's experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Small group instruction allows for deeper personalization of the orchestra curriculum and encourages a stronger teacher-student relationship that allows for more frequent formative feedback to the student. The combination of large and small ensemble instruction creates the balance of maintaining a very high quality performing orchestral ensemble while encouraging students to make deeper personal connections with curriculum, thus empowering them to continue their musical learning outside of the classroom.

## WORLD LANGUAGES

*Note: All language courses are a Level 1 course. Please be mindful of this when selecting your course and language of choice. Students are required to take Level 1A before taking Level 1B. Level 1A is not offered in 8th grade. Successful completion of 1A and 1B earns a high school credit.*

## French 1A 6007

**Course Length** Year, Alternating Days (A/B)

Have you ever wanted to eat a croissant while looking at the Eiffel Tower? Have you ever wanted to travel to Paris and stroll on the Champs-Élysées? Have you ever wanted to flip a crepe and say “Oh là là!” If so, French is for you! You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the French-speaking world. Bon voyage!

Completing French 1A and French 1B is the equivalent of French I at the high school level.

## German 1A

6017

**Course Length** Year, Alternating Days (A/B)

Here are the top three reasons why you should take German: 1. English and German belong to the same language family. That's why German is easy to learn. 2. Want to make money? Germany is the largest European trading partner with the US. 3. Hate to pay tuition? Go to a German school for free! Most German universities don't charge tuition. If this sounds good to you, take German! In German you'll learn the basics of communicating and be able to talk about yourself, your friends and your family.

Completing German 1A and German 1B is the equivalent of German I at the high school level.

## Latin 1A

6027

**Course Length** Year, Alternating Days (A/B)

The beginning Latin student will be introduced to the culture and history of the ancient civilizations through a study of the basics of the language. The first year student will build a basic vocabulary and study the essentials of grammar to foster skills in reading and comprehending fabricated Latin as well as responding orally to basic classroom management questions. The application of Latin grammar and vocabulary to English skills offers the student a practical 21st century approach to a foundational language. Cultural topics including the Roman family, children's sports, slavery and the early Roman Republic will augment the student's foundation in Western Civilization.

Completing Latin 1A and Latin 1B is the equivalent of Latin I at the high school level.

## Mandarin Chinese 1A

6047

**Course Length** Year, Alternating Days (A/B)

Do you want to go on an adventure through the unique Chinese culture, and taste delicious Chinese food? Do you want to learn a language through stories of Jackie Chan, Mulan, or Chinese Zodiac animals? Do you want to visit China someday, and see the famous and majestic Great Wall and Forbidden City? If so, Mandarin Chinese is for you! It's useful too - Chinese has the most first language speakers of any language, and China is increasingly important on the world stage. You will learn this fascinating language in easy steps. Read, write, speak, and think in a whole new way.

Completing Mandarin Chinese 1A and Mandarin Chinese 1B is the equivalent of Chinese I at the high school level.

## Spanish 1A

6037

**Course Length** Year, Alternating Days (A/B)

iHola! Wouldn't it be fun to travel to Spain? Mexico? Guatemala? Argentina? Wouldn't you like to learn all about the different types of foods, holidays, and cultural differences from the 21 Spanish-speaking countries? If so, take Spanish. You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the Spanish-speaking world. Come discover what makes the Hispanic cultures so diverse and find new ways to connect to the larger world. ¡Buen Viaje!

Completing Spanish 1A and Spanish 1B is the equivalent of Spanish I at the high school level.

## Speak It!

6050

**Course Length** Semester, Alternating Days (A/B)

Whether you simply want to refine your speaking skills or if you love to speak in public, SPEAK IT! is the class for you. This course is designed to help you become more comfortable speaking in class, in front of an audience, or on the stage. Students will learn strategies to clearly and effectively communicate with others in a variety of settings. In addition, students will learn performance skills that will help with acting, forensics, and presentations. Students will learn to communicate ideas effectively with confidence!

This is a repeatable course.

## World Language Plus

6051

**Course Length** Semester, Alternating Days (A/B)

Students will learn the fundamentals of how to learn a language using games, peer collaboration, and different language apps. Students will select a language that is not already offered as a separate course to study. Units are based on student language level and interests, and may include sports, food, shopping, international travel, and careers. Students will explore current events and cultures of the language chosen. World Language Plus can be taken as an opportunity to explore languages and language learning. By the end of this course, students will be able to compare their first language with a new language, and identify and apply strategies needed for learning a language. This is a repeatable course.

# 8TH GRADE Core Courses

## Academic & Career Planning **8017**

**Course Length** ACP curriculum is delivered throughout the year at various time frames

Middle School Academic and Career Planning provides the foundation for students to explore options as they commence their academic and career planning during their middle school years. The ACP process personalizes each student's educational experience while providing opportunities to explore and set short-term goals in preparation for his/her future. Throughout the ACP process, students focus on four questions: Who Am I?, Where am I Going?, How do I Get There?, and What can I do now? Exploring these questions assists students in understanding their strengths, interests, potential career pathways, and potential post-secondary education

## Algebra I **1218**

**Course Length** Year

**Prerequisites** Math 7 and/or Pre-Algebra

Algebra I is the foundation for mathematical reasoning. Strategies and skills learned in Algebra I are transferred to nearly every other content area and are used in everyday life. The course is designed to use inquiry based strategies to help build conceptual understanding, vocabulary, and to help students most effectively explain their reasoning. Key concepts include solving and graphing linear equations, functions with exponents, polynomial and quadratic functions, and statistics. Students will be asked to discover and apply formulas to solve for unknowns and develop problem solving ability.

Algebra I is a high school level course. Prerequisites are non-negotiable.

## Choices and Wellness 8 **1708**

**Course Length** Choices and Wellness curriculum is delivered throughout the year at various time frames

Students will develop a greater sense of respect and responsibility with various topics regarding life choices and wellness. This course includes the Human Growth and Development curriculum. Parents are notified annually of lessons specific to Human, Growth, and Development.

## Honors Geometry **1228**

**Course Length** Year

**Prerequisites** Algebra I

Honors Geometry is a rigorous and fast paced course that increases the depth of study related to concepts in Geometry. This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods) and algebraic applications. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing. Honors Geometry is a high school level course. Prerequisites are non-negotiable.

## Language Arts 8 **1808**

**Course Length** Year

Eighth grade Language Arts continues to emphasize a rigorous approach to the integration of reading and writing strategies to develop students as authors by having them engage with the following genres: investigative journalism, literary analysis, research-based position paper, poetry, and fantasy. Grammar instruction is embedded in the writing process and includes parts of speech, punctuation, and sentence structure. Classic, current, and multicultural literature serves as an impetus for the related skills of communication, speaking, listening, vocabulary development, and writing.

## Pre-Algebra **1220**

**Course Length** Year

**Prerequisites** Math 7

In this course, students will work with radicals and integer exponents; understand the connections between proportional relationships, lines, and linear equations; analyze and solve linear equations and pairs of simultaneous linear equations; define, evaluate, and compare functions; use functions to model relationships between quantities; understand congruence and similarity using physical models, transparencies, or geometry software; and understand and apply the Pythagorean Theorem. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Science 8 **1408**

**Course Length** Year

Eighth grade science is centered around doing the practices of science and engineering. Students will use the science content to develop their skills in these practices as well as learn themes (Cross Cutting Concepts) through science, such as cause and effect, patterns, and the structure-function relationship. Scientific skills will be applied to learn the topics for this year include basic chemistry, human body, genetics, sound, and light.

## Social Studies 8 **1508**

**Course Length** Year

The Interconnected World and Modern America  
8th grade Social Studies historians learn how contributions of modern America impact societies, both past and present in our interconnected world. Through the integrated study of economics, geography, history, political science and the behavioral sciences, students apply skills of inquiry, collaboration, decision making and problem solving. The chrono period covered is 1900 to present.

# 8TH GRADE

## Elective Courses

Our students' middle school elective programming can provide opportunities for students to experience challenging, relevant, and integrated learning that builds upon and deepens the core curriculum, assists in exploring areas of interest, and provides exposure to potential 21st century careers.

In 8th grade, students have the opportunity to select elective courses from our five elective area strands:

- Applied Technology and Engineering
- Visual and Performing Arts
- Information Technology and Entrepreneurship
- Health Science and Wellness
- World Languages

In addition, all 8th grade students are required to take a physical education course.

A visual representation of 8th grade elective offerings is below and course descriptions are on the following page:

Elective Strands	Applied Technology & Engineering	Visual & Performing Arts	Information Technology & Entrepreneurship	Health Science and Wellness	World Languages
7th Grade Elective Courses	Architecture and Construction	2D Art & Design	Master Chef Junior		French 1B (Year Long)
	Design and Modeling in a Fab Lab	3D Art & Design	Animation Studio	Medical Detectives	German 1B (Year Long)
	Engineering in Motion	Community Art	App Creators		Latin 1B (Year Long)
	Robotics and Automation	Visual Art	Social Media Marketing		Physical Education (Required, Year Long)
		Band (Year Long)		Spanish 1B (Year Long)	
	Woodworking	Choir (Year Long)	Video Game Academy	World Language Plus	
		Orchestra (Year Long)			Speak It!

All classes are held every other day and are semester-long unless otherwise noted.

## APPLIED TECHNOLOGY & ENGINEERING

*Note: All Applied Technology & Engineering courses are repeatable year after year, with the exception of Architecture and Construction. Architecture and Construction may be taken 7th or 8th grade, but not both.*

### Architecture and Construction 2055

**Course Length** Semester, Alternating Days (A/B)

Have you ever wondered how architects design homes? How about what is hidden behind the walls in your house or apartment? In this fast paced, engaging course, students will learn basic home design principles and construction techniques. This will be completed through the design of a small home as well as constructing a model home complete with subsystems like plumbing, electrical and HVAC. This course is not repeatable.

### Design and Modeling in a Fab Lab 2056

**Course Length** Semester, Alternating Days (A/B)

Have you ever dreamed of becoming an engineer or some type of designer? Then, this course is for you! Design and Modeling in a Fab Lab students discover the engineering design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply the design process throughout the unit to design solutions to various problems. Students will use a FabLab to bring their designs to life using 3D printers, laser engraver, CNC machines and vinyl cutters.

### Engineering in Motion 2057

**Course Length** Semester, Alternating Days (A/B)

Engineering design is brought to life in this exciting course where students will design and create prototypes of real life machines. Students combine their creativity with a design thinking process to build some of the fastest, strongest and coolest Co2 race cars, bridges, model rockets, hovercraft, and mousetrap cars ever seen.

### Robotics and Automation 2058

**Course Length** Semester, Alternating Days (A/B)

Students trace the development and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use VEX Robotics platform to design, build and program real world objects such as traffic lights, cars, toll booths and robotic arms.

### Woodworking 2059

**Course Length** Semester, Alternating Days (A/B)

Come join a class that will prepare you to design and construct a variety of woodworking projects. Learn the basics of woodworking from hand tools to power tools and take home some cool projects that you can say you made! We will show you how projects go from being an idea all the way through a completed piece of work. Discover things like how to layout and square a board. Then, learn how to join boards together to form your projects. Finally, learn about different finishing techniques commonly used in the industry.

## HEALTH SCIENCE & WELLNESS

### Master Chef Junior 5052

**Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

### Medical Detectives (PLTW) 5053

**Course Length** Semester, Alternating Days (A/B)

In this course, students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence to solve a community outbreak mystery. They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health. This course is not repeatable.

### Physical Education 8 (PE 8) 1308

**Course Length** Year, Alternating Days (A/B)

In this course, students will participate in a variety of activities that will focus on fitness, practice more advanced movement forms, and develop self-sufficiency and social interaction. The major emphasis of physical education is on life-long fitness development and wellness. Concepts of leadership, teamwork, responsibility, inclusion, positive attitudes, and an increased knowledge of physical activity and its effects on the body are emphasized. Students will have the opportunity to be active in 3 primary units: Cooperatives, Fitness Concepts, and Motor Skills and Movement Patterns.



## INFORMATION TECHNOLOGY & ENTREPRENEURSHIP

### Animation Studio 4054

**Course Length** Semester, Alternating Days (A/B)

Begin your journey to becoming an animator for companies like Disney, Dreamworks, and Universal by bringing your creativity and personal style to life using a variety of animation mediums. Students work individually as well as in small teams to create projects including but not limited to digital stop-motion, computer/3D animation, and augmented reality. No previous experience needed!

### App Creators (PLTW) 4055

**Course Length** Semester, Alternating Days (A/B)

Businesses and individuals alike are making millions of dollars by developing apps that entertain, solve problems, and make life better. This class will get you well on your way to making your very own apps regardless of how much or how little previous coding experience you have had. Limited only by your imagination, you will have fun customizing your experience by developing apps that interest you while learning software engineering concepts. This course is not repeatable.

### Master Chef Junior 5052

**Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

### Social Media Marketing 4056

**Course Length** Semester, Alternating Days (A/B)

Go from social media zero to social media hero! "Social Media Marketing" focuses on strategies and techniques to utilize the power of YouTube-style videos to grow your personal and entrepreneurial online presence. Students work individually as well as in small teams to create projects including but not limited to music videos, movie trailers, news productions, and commercials.

### Video Game Academy 4059

**Course Length** Semester, Alternating Days (A/B)

Video games in school? Yes, you read that correctly! In this exciting class students have the opportunity to explore classic video games at an actual local arcade, modern video games, learn coding principles, and use their ideas to create their very own shareable online video game. This collaborative classroom experience concludes with a hackathon in which students showcase their finished "product". It makes NO difference if you're new to video game design or an advanced user, come join in the fun!

## VISUAL & PERFORMING ARTS

*Note: All visual and performing arts courses are repeatable year after year, but not twice in the same year.*

### 2D Art & Design 3054

**Course Length** Semester, Alternating Days (A/B)

2D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, digital art, and printmaking in a professional studio environment.

### 3D Art & Design 3055

**Course Length** Semester, Alternating Days (A/B)

3D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create 3 dimensional artworks using a variety of sculptural mediums such as; clay, cardboard, paper mache, plaster, found objects, recycled materials, etc

### Band 8 7008

**Course Length** Year, Alternating Days (A/B)

Band classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music.

## Chorus 8 7018

**Course Length** Year, Alternating Days (A/B)

Middle School Choir provides an opportunity for students to study vocal performance through the study of music in a variety of genres and styles including, classical, contemporary, pop, folk, jazz, musical theater, and the study of a solo off of the WSMA solo/ensemble list. Throughout the day to day rehearsals, students will study the music in regards to historical context, music theory, culture, and the aesthetic of the piece. The overall goal of the music department is to facilitate student growth towards independent musicianship, creating inquisitive and creative lifelong musicians and learners.

## Community Art 3056

**Course Length** Semester, Alternating Days (A/B)

Community Art is an art course designed for students who are looking to expand their art outside the classroom. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have the opportunity to collaborate with instructors and peers to create works of art that will have a positive impact on the community. Students will utilize a design thinking process to create artworks using traditional and non-traditional art forms in a professional studio environment.

## Visual Art 8 3038

**Course Length** Semester, Alternating Days (A/B)

Visual Art is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of art-making strategies and will explore how images have been used throughout history and within the contemporary world. Students will have a choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, and printmaking in a professional studio environment.

## Strings/Orchestra 8 7028

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Previous orchestra experience or consent of instructor

Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences – creating, performing, responding to, and making connections to music – ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students’ understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student’s experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Small group instruction allows for deeper personalization of the orchestra curriculum and encourages a stronger teacher-student relationship that allows for more frequent formative feedback to the student. The combination of large and small ensemble instruction creates the balance of maintaining a very high quality performing orchestral ensemble while encouraging students to make deeper personal connections with curriculum, thus empowering them to continue their musical learning outside of the classroom.

## WORLD LANGUAGES

*Note: All language courses are a Level 1 course. Please be mindful of this when selecting your course and language of choice. Students are required to take Level 1A before taking Level 1B. Level 1A is not offered in 8th grade. Successful completion of 1A and 1B earns a high school credit.*

## French 1B 6008

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** French 1A

Have you ever wanted to eat a croissant while looking at the Eiffel Tower? Have you ever wanted to travel to Paris and stroll on the Champs-Elysees? Have you ever wanted to flip a crepe and say “Oh là là!” If so, French is for you! You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the French- speaking world. Bon voyage!

Completing French 1A and French 1B is the equivalent of French I at the high school level.

## German 1B 6018

<b>Course Length</b>	Year, Alternating Days (A/B)
<b>Prerequisites</b>	German 1A

Here are the top three reasons why you should take German: 1. English and German belong to the same language family. That's why German is easy to learn. 2. Want to make money? Germany is the largest European trading partner with the US. 3. Hate to pay tuition? Go to a German school for free! Most German universities don't charge tuition. If this sounds good to you, take German! In German you'll learn the basics of communicating and be able to talk about yourself, your friends and your family.

Completing German 1A and French 1B is the equivalent of German I at the high school level.

## Latin 1B 6028

<b>Course Length</b>	Year, Alternating Days (A/B)
<b>Prerequisites</b>	Latin 1A

The beginning Latin student will be introduced to the culture and history of the ancient civilizations through a study of the basics of the language. The first year student will build a basic vocabulary and study the essentials of grammar to foster skills in reading and comprehending fabricated Latin as well as responding orally to basic classroom management questions. The application of Latin grammar and vocabulary to English skills offers the student a practical 21st century approach to a foundational language. Cultural topics including the Roman family, children's sports, slavery and the early Roman Republic will augment the student's foundation in Western Civilization.

Completing Latin 1A and Latin 1B is the equivalent of French I at the high school level.

## Mandarin Chinese 1B 6048

<b>Course Length</b>	Year, Alternating Days (A/B)
<b>Prerequisites</b>	Mandarin Chinese 1A

Do you want to go on an adventure through the unique Chinese culture, and taste delicious Chinese food? Do you want to learn a language through stories of Jackie Chan, Mulan, or Chinese Zodiac animals? Do you want to visit China someday, and see the famous and majestic Great Wall and Forbidden City? If so, Mandarin Chinese is for you! It's useful too - Chinese has the most first language speakers of any language, and China is increasingly important on the world stage. You will learn this fascinating language in easy steps. Read, write, speak, and think in a whole new way.

Completing Mandarin Chinese 1A and Mandarin Chinese 1B is the equivalent of Chinese I at the high school level.

## Spanish 1B 6038

<b>Course Length</b>	Year, Alternating Days (A/B)
<b>Prerequisites</b>	Spanish 1A

¡Hola! Wouldn't it be fun to travel to Spain? Mexico? Guatemala? Argentina? Wouldn't you like to learn all about the different types of foods, holidays, and cultural differences from the 21 Spanish-speaking countries? If so, take Spanish. You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the Spanish-speaking world. Come discover what makes the Hispanic cultures so diverse and find new ways to connect to the larger world. ¡Buen Viaje!

Completing Spanish 1A and Spanish 1B is the equivalent of Spanish I at the high school level.

## Speak It! 6052

<b>Course Length</b>	Semester, Alternating Days (A/B)
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Whether you simply want to refine your speaking skills or if you love to speak in public, SPEAK IT! is the class for you. This course is designed to help you become more comfortable speaking in class, in front of an audience, or on the stage. Students will learn strategies to clearly and effectively communicate with others in a variety of settings. In addition, students will learn performance skills that will help with acting, forensics, and presentations. Students will learn to communicate ideas effectively with confidence!

This is a repeatable course.

## World Language Plus 6053

<b>Course Length</b>	Semester, Alternating Days (A/B)
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Students will learn the fundamentals of how to learn a language using games, peer collaboration, and different language apps. Students will select a language that is not already offered as a separate course to study. Units are based on student language level and interests, and may include sports, food, shopping, international travel, and careers. Students will explore current events and cultures of the language chosen. World Language Plus can be taken as an opportunity to explore languages and language learning. By the end of this course, students will be able to compare their first language with a new language, and identify and apply strategies needed for learning a language.

This is a repeatable course.



# RESOURCES

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- [Courses at a Glance](#)
- [Middle School Grading Scale](#)
- [District Middle School Fees](#)
- [Contact Information](#)

# COURSES AT A GLANCE

“\*\*” indicates that a course has (a) prerequisite(s). Please refer to the course descriptions in the Planning Guide for more information.  
“+” indicates that a course is NOT repeatable for credit the following year.

Course	Course#
<b>6th Grade - Core Courses</b>	
Academic & Career Planning	8017
Choices and Wellness 6	1706
Language Arts 6	1806
Math 6	2206
Math 7*	2207
Pre-Algebra*	1220
Science 6	1406
Social Studies 6	1506
<b>6th Grade - Electives “Wheel” (1 Quarter, Every Day)</b>	
Health Science & Wellness 6	5006
Innovators & Makers 6	4006
Technology, Engineering and Manufacturing 6	2106
Studio Art 6	3006
<b>6th Grade - Music (Year Long, Alt Days)</b>	
Band 6	7006
Chorus 6	7016
Strings/Orchestra 6	7026
<b>6th Grade - PE (Year Long, Alt Days)</b>	
PE 6	1306
<b>6th Grade - Resource Period</b>	
Resource 6	1606

Course	Course#
<b>7th Grade - Core Courses</b>	
Academic & Career Planning	8017
Choices and Wellness 7	1707
Language Arts 7	1807
Math 7	2207
Pre-Algebra*	1220
Algebra 1*	1218
Science 7	1407
Social Studies 7	1507
PE 7 (Required, Year Long, Alt Days)	1307
Resource Period 7	1607
<b>7th Grade - Elective Courses</b>	
<b>APPLIED TECH &amp; ENGINEERING - Semester Long, Alt Days</b>	
Architecture and Construction 7+	2050
Design Modeling in a Fab Lab 7	2051
Engineering in Motion 7	2052
Robotics and Automation 7	2053
Woodworking 7	2054
<b>HEALTH SCIENCE &amp; WELLNESS - Semester Long, Alt Days</b>	
Master Chef Junior 7	5050
Medical Detectives 7+	5051
<b>IT &amp; ENTREPRENEURSHIP - Semester Long, Alt Days</b>	
Animation Studio 7	4050
App Creators 7+	4051
Master Chef Junior 7	5050
Social Media Marketing 7	4052
Video Game Academy 7	4053
<b>MUSIC - All Year, Alt Days</b>	
Band 7	7007
Chorus 7	7017
Strings/Orchestra 7	7027
<b>VISUAL ARTS - Semester Long, Alt Days</b>	
2D Art & Design	3050
3D Art & Design	3051
Community Art 7	3052
Visual Art 7	3037
<b>WORLD LANGUAGE - All Year, Alt Days</b>	
French 1A	6007
German 1A	6017
Latin 1A	6027
Mandarin Chinese 1A	6047
Spanish 1A	6037
Speak It! 7 (Semester Long, Alt Days)	6050
World Language Plus 7 (Semester Long, Alt Days)	6051

Course	Course#
<b>8th Grade - Core Courses</b>	
Academic & Career Planning	8017
Choices and Wellness 8	1708
Language Arts 8	1808
Pre-Algebra*	1220
Algebra 1*	1218
Honors Geometry*	1228
Science 8	1408
Social Studies 8	1508
PE 8 (Required, Year Long, Alt Days)	1308
Resource Period 8	1608
<b>8th Grade - Elective Courses</b>	
<b>APPLIED TECH &amp; ENGINEERING - Semester Long, Alt Days</b>	
Architecture and Construction 8	2055
Design Modeling in a Fab Lab 8	2056
Engineering in Motion 8	2057
Robotics and Automation 8	2058
Woodworking 8	2059
<b>HEALTH SCIENCE &amp; WELLNESS - Semester Long, Alt Days</b>	
Master Chef Junior 8	5052
Medical Detectives 8	5053
<b>IT &amp; ENTREPRENEURSHIP - Semester Long, Alt Days</b>	
Animation Studio 8	4054
App Creators 8	4055
Master Chef Junior 8	5052
Social Media Marketing 8	4056
Video Game Academy 8	4059
<b>MUSIC - All Year, Alt Days</b>	
Band 8	7008
Chorus 8	7018
Strings/Orchestra 8	7028
<b>VISUAL ARTS - Semester Long, Alt Days</b>	
2D Art & Design	3054
3D Art & Design	3055
Community Art 8	3056
Visual Art 8	3038
<b>WORLD LANGUAGE - All Year, Alt Days</b>	
French 1B*	6008
German 1B*	6018
Latin 1B*	6028
Mandarin Chinese 1B*	6048
Spanish 1B*	6038
Speak It! 8 (Semester Long, Alt Days)	6052
World Language Plus 8 (Semester Long, Alt Days)	6053

# Middle School Grading Scale

Grade	Scale 1	Scale 2	Percent Range	Explanation
<b>A</b>	4	5	93-100%	Consistently demonstrates an excellent understanding of content standards
<b>B</b>	3	4	85-92%	Consistently demonstrates a good understanding of content standards
<b>C</b>	2	3	77-84%	Consistently demonstrates a fair understanding of content standards
<b>D</b>	1	2	70-76%	Does not demonstrate consistent understanding of most content standards
<b>F</b>	0	1	Below 70%	Does not demonstrate understanding of most content standards

**I = Incomplete. This is a temporary grade until A, B, C, D or F is assigned.**

# Middle School Fees

Note: 2022-23 Registration and User Fees are pending board approval.

## REQUIRED REGISTRATION FEES

### **MATERIAL FEES** **\$85.00**

Material fees will help defray a portion of the cost of textbooks and other consumable supplies and materials for classroom instruction.

#### **Material Fees will be prorated as follows:**

If students enter after the First Quarter, they will pay 75%.

If students enter after the Second Quarter, they will pay 50%.

If students enter after the Third Quarter, they will pay 25%.

## USER FEES - OPTIONAL PARTICIPATION

User fees may be paid at the beginning of the year or within five days after the start of the activity.

### **Music, Drama, Athletics, Clubs (one time)** **\$40.00**

## POINT OF SALE - OPTIONAL (Fees subject to change)

### **Padlock - Hall Locker or Gym Locker** **\$5.00**

Note: 2 locks are required for 6th grade

### **Work Permit** **\$10.00**

### **Non-sufficient Fund Returned Check Service Charge** **\$20.00**

## EXAMPLES OF OTHER VARIABLE FEES

Field Trips

Student Planners

Science Goggles

Instrument Rental Fees

Lost Uniform/Textbook/Student ID/Padlock/Library

Device Repair/Replacement Fee

College Credit Fees

Co-Curricular Fees

# Contacts

To discuss your academic and career plan, please contact your school counselor:

## **PILGRIM PARK MIDDLE SCHOOL** **262.785.3920**

### **STUDENT SERVICES**

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**Heather Sibley**  
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# MIDDLE SCHOOL Academic & Career Planning Guide

Pilgrim Park Middle School | Wisconsin Hills Middle School





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The mission of the School District of Elmbrook is to educate and inspire every student to think, to learn and to succeed.

The District's Vision and Core Values inspire the work of our students, staff and community as we prepare all students for life, college and career.

**Elmbrook Scholars are...**

**Purpose-Driven Change Agents:**

I know who I am. I understand my strengths and passions, and I know I can make a positive difference in the world. I empower and support those around me, and I am constantly finding ways to improve myself.

**Responsible Citizens:**

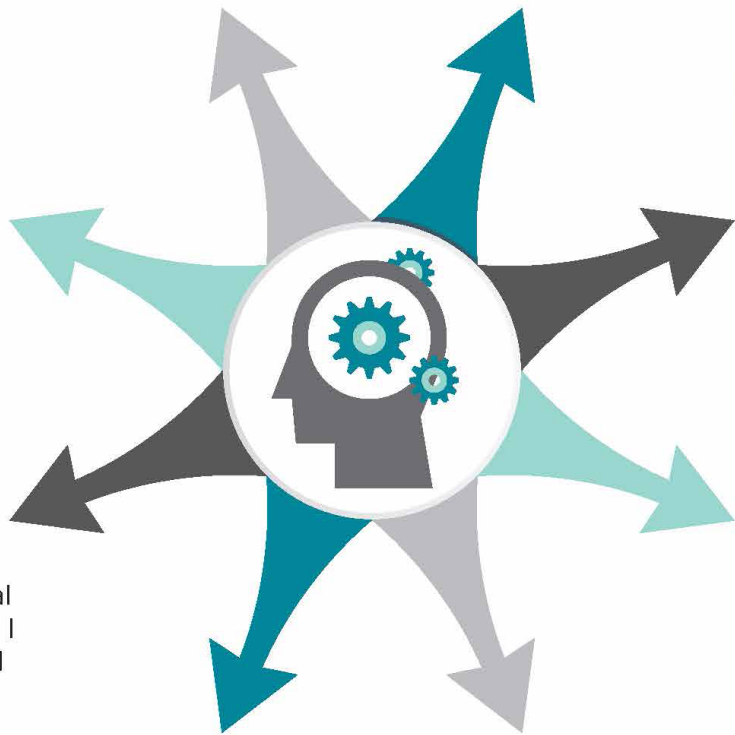
I can think, feel, and act with respect for myself and others. I understand and value other perspectives and a collaborative approach. I can think critically and creatively about the world around me.

**Accomplished Communicators:**

I clearly convey my thoughts, questions, emotions, and solutions in multiple settings and formats. I am an active listener and seek to understand.

**Emotionally Intelligent:**

I am aware of my emotions and sensitive to those of others. I can work effectively with a variety of people.



**Resilient:**

I embrace challenges, persevere and adapt when faced with internal and external obstacles. I am optimistic that I will find solutions to move forward.

**Kind & Grateful:**

I am gracious, caring, and kind to others. I demonstrate empathy and compassion for those around me. I am thankful for new experiences and opportunities.

**Intellectually Curious:**

I have genuine wonder and inquire about the world around me. I take initiative to advance my knowledge and skills. I am committed to lifelong learning.

**Flexible & Adaptable:**

I can adapt to change. I seek and am responsive to feedback. I am able to work effectively in a variety of environments. I value other people's strengths and learn from them.



# ACADEMIC & CAREER PLANNING

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## PROCESS OVERVIEW ..... 5

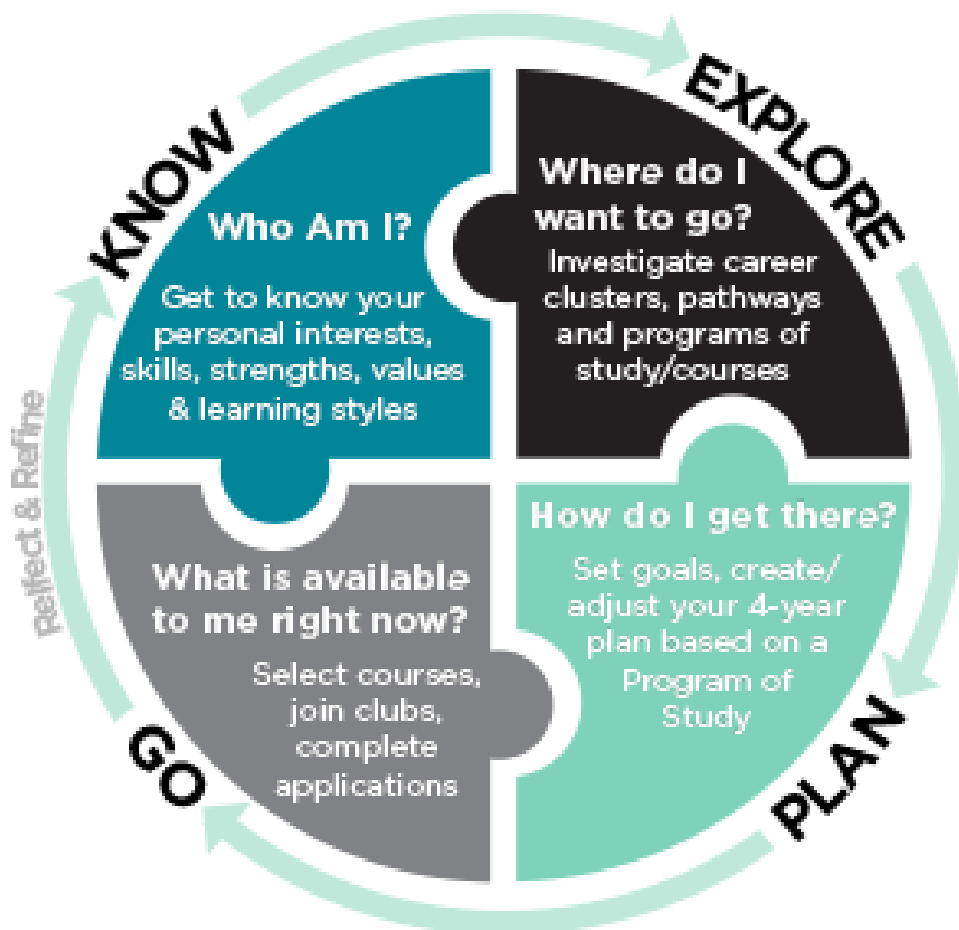
- Student Outcomes by Grade Level
- Math Course Progressions &  
Recommended Criteria for Grade 8 Math Classes

# ACADEMIC & CAREER PLANNING OVERVIEW

Academic and Career Planning (ACP) is a self-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post-secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

## Academic & Career Planning is:

- A student driven vision of personal future goals
- Based on deep understanding and reflection of strengths, interests, values and learning styles
- Connecting goals to collect career exploration and planning and preparing a personal plan for achieving their vision and goals. Students build and grow their plan from one year to the next as they practice setting goals and revising their own Academic and Career Plan.
- Supported by meaningful adult relationships (staff, counselors, parents/guardians, community members)



# STUDENT OUTCOMES BY GRADE LEVEL

## 6<sup>th</sup> GRADE

### IN SIXTH GRADE, I CAN...

- create a short-term goal for myself that considers evidence I collect about who I am right now and where I want to go in my future
- identify ways to grow as a learner
- effectively summarize who I am, where I am going, and what I can do to get there in a written format
- explain my self-reflection and future thoughts with adults who support my success

## 7<sup>th</sup> GRADE

### IN SEVENTH GRADE, I CAN...

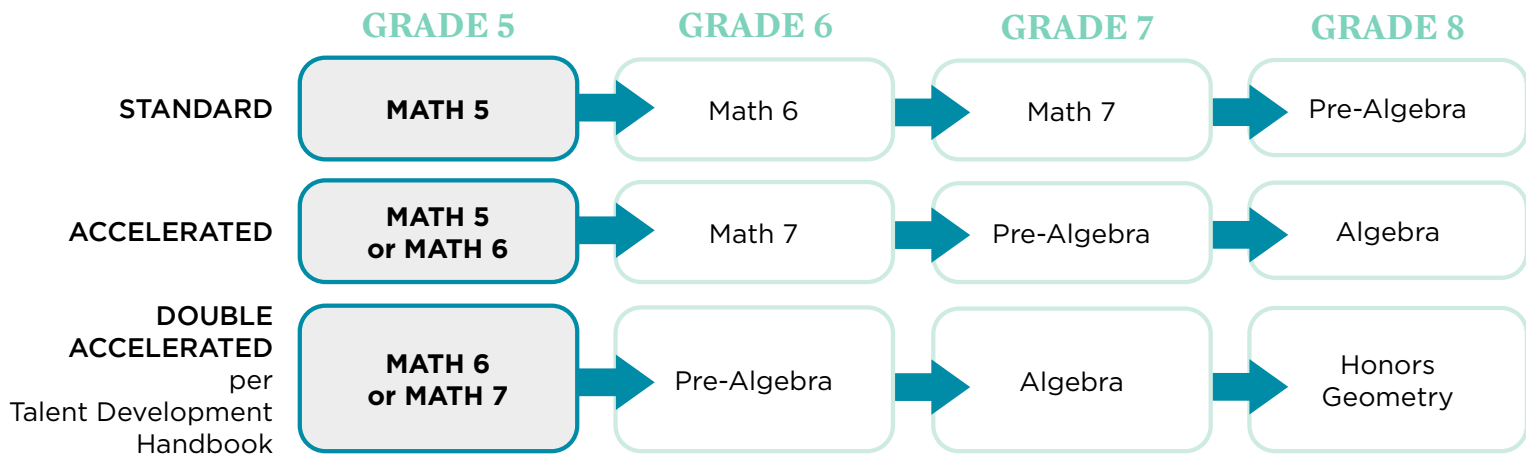
- analyze my current short-term academic and career goal for myself and refine it in light of who I am right now and where I want to go in my future
- utilize my knowledge of self to define what success means to me
- select an area in which I need to grow as a learner and plan how to improve in that area
- appraise post-secondary training and educational options to strengthen employability/professional skills

## 8<sup>th</sup> GRADE

### IN EIGHTH GRADE, I CAN...

- critique and adjust my short-term academic and career goal for myself in light of further evidence I have collected about who I am right now and where I want to go in my future
- accurately assess where I am as a learner and describe ways to continue to grow
- evaluate resources and strategies and define what I need to support my preparation and transition to high school
- effectively synthesize and then communicate who I am, where I am going, and what I can do to get there
- utilize my self-reflection to articulate my growth and future thoughts to adults who support my success

# MATH COURSE PROGRESSIONS



Recommendations for a student's math course is based on standardized assessment data and class performance data from the student's seventh grade math class.

Considerations to inform acceleration decision making include the following:

- Consistent MAP scores above 90% for single acceleration
- Semester report card grades (consistent A's typical for acceleration)
- Level of independence working through math problems
- Teacher input and comments regarding math classroom performance

## RECOMMENDED CRITERIA for accelerated math coursework

### Math 7 Taken as a 6th Grade Student

- Grade 5 MAP Fall RIT score of 229 or above and Winter RIT score of 235 or above
- Grade 5 math MAP fall RIT percentile and Winter RIT percentile (90%+ is typical for Math 7)
- Take into consideration trend in MAP performance throughout your child's elementary experience
- Report card feedback in the Exceeds range
- Perseverance in working through challenging math problems
- Teacher feedback and comments indicating strong math classroom performance

### Pre-Algebra Taken as a 6th Grade Student

- Must have met Double Acceleration Criteria per Talent Development Handbook: <https://www.elmbrookschoools.org/programs-services/talent-development>
- Has had an accelerated math experience in grade 5
- Has a recommendation from the elementary Teaching and Learning Specialist based on the student's performance in the accelerated math course

### Pre-Algebra Taken as a 7th Grade Student

- Recommendation from Math 7 teacher and/or successful completion of Math 7
- Grade 6 MAP Fall RIT score of 235 or above and Winter RIT score of 241 or above

### Algebra Taken before 8th Grade

- Recommendation from Pre-Algebra teacher and/or successful completion of Pre-Algebra
- Students new to the district must have completed a course comparable to Pre-Algebra and complete additional testing as determined by the placement team
- Grade 7 MAP Fall RIT score of 243 or above and Winter RIT score of 247 or above

### Honors Geometry Taken before 8th Grade

- Recommendation from Algebra teacher and/or successful completion of Algebra
- Students new to the district must have completed a high school level algebra course and/or complete additional testing as determined by the placement team

# MIDDLE SCHOOL BELL SCHEDULE

Normal School Day: 7:18 a.m. - 2:31 p.m.

6TH GRADE	7TH GRADE	8TH GRADE
<b>Resource</b> 7:18-7:50	<b>Resource</b> 7:18-7:50	<b>Resource</b> 7:18-7:50
<b>1st Hour (Core)</b> 7:53-8:57	<b>1st Hour (Core)</b> 7:53-8:57	<b>1st Hour (Elective)</b> 7:53-8:40
<b>2nd Hour (Core)</b> 9:00-10:04	<b>2nd Hour (Core)</b> 9:00-10:04	<b>2nd Hour (Elective)</b> 8:43-9:29
<b>Lunch</b> 10:07-10:37	<b>3rd Hour (Elective)</b> 10:08-10:54	<b>3rd Hour (Core)</b> 9:33-10:37
<b>3rd Hour (Core)</b> 10:40-11:44	<b>Lunch</b> 10:57-11:27	<b>4th Hour (Core)</b> 10:40-11:44
<b>4th Hour (Core)</b> 11:47-12:51	<b>4th Hour (Elective)</b> 11:30-12:16	<b>Lunch</b> 11:47-12:17
<b>5th Hour (Elective)</b> 12:55-1:41	<b>5th Hour (Core)</b> 12:20-1:24	<b>5th Hour (Core)</b> 12:20-1:24
<b>6th Hour (Elective)</b> 1:44-2:31	<b>6th Hour (Core)</b> 1:27-2:31	<b>6th Hour (Core)</b> 1:27-2:31

## What happens during **RESOURCE BLOCK**

Resource Block was created in 2022 in response to feedback that additional time is needed to support individual student needs through flexible scheduling while fostering student ownership of their learning. Each school day starts with resource block. Two days a week, the time is spent on instruction in approved curricular areas including:

- Academic and Career Planning
- Human Growth and Development
- Digital Citizenship

Three days a week, students can use the time to best meet their individual needs by visiting a class/teacher, collaborating with staff and students and attending club meetings as scheduled by advisors. The benefits of resource block include:

- Creates time in the school day to meet with teachers or get extra help
- Allows built in time for students to complete make up work or assessments after absences
- Provides timely targeted intervention and/or enrichment for students giving them what they need when they need it
- Supports individual needs of students for self-guided or collaborative study
- Students learn how to manage their time, advocate for their learning and interests, and become more independent.





# COURSE OFFERINGS

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- Procedure and Timetable for Scheduling Courses & Registration
- 6th Grade Core Course Descriptions
- 6th Grade Elective Course Descriptions
- 7th Grade Core Course Descriptions
- 7th Grade Elective Course Descriptions
- 8th Grade Core Course Descriptions
- 8th Grade Elective Course Descriptions

# Procedure & Timetable for Scheduling Courses & Registration

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Students receive course selection material for the next school year at the beginning of second semester. Parents and students are encouraged to familiarize themselves with basic requirements, review course descriptions, and be alert to prerequisites. Students and parents may direct questions regarding specific courses to teachers and counselors.

A variety of factors are considered in determining each student's house placement. Each house is made up of a heterogeneous group of students with a range of learning needs. Parents may submit information in writing regarding their son or daughter which might help with the selection of house placement or the general scheduling of their child to their school counselor by April 1st. Specific requests for houses/teachers will not be honored.

Parents and students are asked to list elective choices and alternates. Every attempt is made to give students their first choices; however, students may be scheduled into alternate choices if conflicts occur. **Please choose your elective classes carefully.** Teachers are assigned elective classes according to the number of students choosing their class. It is **very difficult** to make changes after this has taken place, as teacher assignments must be made before the school year begins. **The only way an elective class can be changed is if there is space available and if the change does not cause another class to be canceled.**

# 6TH GRADE Core Courses

## Language Arts 6

1806

**Course Length** Year

Sixth grade Language Arts focuses on the development of students as readers and authors by having them engage with the following genres: personal narrative, persuasive essay, literary argumentative essay, research-based informational writing, poetry. Reading instruction emphasizes the application of reading strategies to comprehend a variety of texts. Writing instructions focuses on the writing process, as well as the appropriate use of vocabulary, grammar, usage, and mechanics in their writing and speech.

## Math 6

2206

**Course Length** Year

In this course students will understand ratio concepts and use ratio reasoning to solve problems, apply and extend previous understandings of multiplication and division to divide fractions by fractions, apply and extend previous understandings of numbers to the system of rational numbers, apply and extend previous understandings of arithmetic to algebraic expressions, reason about and solve one-variable equations and inequalities, and represent and analyze quantitative relationships between dependent and independent variables. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Math 7

2207

**Course Length** Year

**Prerequisites** Please see "Recommended Criteria for Accelerated Math Coursework" on page 7 of this guide

In this course students will analyze proportional relationships and use them to solve real-world and mathematical problems; apply and extend previous understandings of operation with fractions to add, subtract, multiply, and divide rational numbers; use properties of operations to generate equivalent expressions; and solve real-life and mathematical problems using numerical and algebraic expressions and equations. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Science 6

1406

**Course Length** Year

The emphasis for the sixth grade science program is based on inquiry, design thinking, engineering principles and the presentation of scientific principles as it relates to the students ever changing world. The students will explore and experience a variety of areas within the field of science including: Earth systems (weather), Electricity/Magnetism, Space and Ecology through the use of reading, research, observation, technology, discussion and projects. All units will include problem solving, data collection, analysis and interpretation of data, and real-life application.

## Social Studies 6

1506

**Course Length** Year

The Interconnected World and Ancient Civilizations 6th grade historians learn how contributions of ancient civilizations impact societies, both past and present in our interconnected world. Through the integrated study of economics, geography, history, political science and the behavioral sciences, students apply skills of inquiry, collaboration, decision making and problem solving. The chrono period covered is Ancient Civilizations to the 1500s.

*The following curriculum is delivered throughout the year at various time frames, most frequently during resource block:*

### Academic Career Planning

Middle School Academic and Career Planning provides the foundation for students to explore options as they commence their academic and career planning during their middle school years. The ACP process personalizes each student's educational experience while providing opportunities to explore and set short-term goals in preparation for his/her future. Throughout the ACP process, students focus on four questions: Who Am I?, Where am I Going?, How do I Get There?, and What can I do now? Exploring these questions assists students in understanding their strengths, interests, potential career pathways, and potential post-secondary education.

### Choices & Wellness

Students will develop a greater sense of respect and responsibility with various topics regarding life choices and wellness. This course includes the Human Growth and Development curriculum. Parents are notified annually of lessons specific to Human, Growth, and Development.

### Digital Citizenship

Students today are surrounded by technology and use it every day to learn, collaborate, share, and play. Digital Citizenship is about creating thoughtful, empathetic citizens who know what is right and wrong, exhibit intelligent technology behavior, and make good choices when online. This course is intended to empower our learners to recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world so that they can act and model in ways that are safe, legal and ethical.

# 6TH GRADE Elective Courses

## THE 6TH GRADE “WHEEL”

Our students’ middle school elective programming can provide opportunities for students to experience challenging, relevant, and integrated learning that builds upon and deepens the core curriculum, assists in exploring areas of interest, and provides exposure to potential 21st century careers.

In 6th grade, students experience “Wheel” courses that rotate every quarter so that they gain valuable exposure to multiple elective strands:

- Applied Technology and Engineering,
- Visual and Performing Arts,
- Information Technology and Entrepreneurship
- Health Sciences and Wellness.

**In addition, all 6th grade students are required to take:**

- Physical Education course
- Music course (Band, Orchestra, or Chorus)  
Students who elect to take two music courses will share time between the courses within the assigned time block

A visual representation of the 6th grade elective experience is below and course descriptions are on the following page:

Elective Strands	Applied Technology & Engineering	Visual & Performing Arts	Information Technology & Entrepreneurship	Health Science and Wellness
6th Grade Elective Courses	Ignite! (embedded into all “Wheel” classes)			
	Technology, Engineering and Manufacturing (quarter)	Studio Art (quarter)	PLTW Innovators & Makers (quarter)	Health Science and Wellness (quarter)
	Music: Band, Orchestra or Choir (Year Long - A Days)		Physical Education (Year Long - B Days)	

## Career and Technical Education Mission Statement

The mission of Elmbrook's Career and Technical Education (CTE) is to prepare students for career and life success in the local and global marketplace by cultivating all learners as thinkers, problem solvers, innovators, collaborators and communicators.

CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry'
- Preparation for high-skill, high-wage, high-demand careers.

## APPLIED TECHNOLOGY & ENGINEERING

### Technology, Engineering and Manufacturing 6

2106

**Course Length** Quarter

This course asks students to create, design, build, and discover! Students are introduced to and use a design thinking process to solve problems. Students use industry standard 3D modeling software to create virtual images of their designs. Students use industry standard 2D modeling software to create custom designs. Students will bring the design process full circle when they build or create the projects they have designed. The course exposes students to a design-thinking approach to problem solving, a skill that is embedded within all middle school elective offerings.

## HEALTH SCIENCE & WELLNESS

### Health Science & Wellness 6

5006

**Course Length** Quarter

Students will develop a greater sense of respect and responsibility with various topics regarding healthy living and personal wellness. The importance of healthy diet and fitness will be explored. Students will gain kitchen safety and food preparation skills, nutrition and general wellness knowledge. Students will have the opportunity to receive their American Red Cross - babysitting certification and will also learn basic first aid and skills to use in emergency situations.

### Physical Education 6 (PE 6)

1306

**Course Length** Year, Alternating Days (A/B)

In this course students will be introduced to a variety of activities that will focus on fitness, practice introductory skills, and develop self-sufficiency and social interaction. Students will have the opportunity to be active in 3 primary units: Cooperatives, Fitness Development, and Motor Skills and Movement Patterns.

## INFORMATION TECHNOLOGY & ENTREPRENEURSHIP

### PLTW Innovators and Makers 6

4006

**Course Length** Quarter

Programming goes beyond the virtual world into the physical world. Students are challenged to creatively use sensors and actuators to develop systems that interact with their environment. While designing algorithms and using computational thinking practices, students code and upload programs to micro-controllers that perform a variety of authentic tasks.

## VISUAL & PERFORMING ARTS

### Band 6 7006

**Course Length** Year, Alternating Days (A/B)

Band classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music.

### Chorus 6 7016

**Course Length** Year, Alternating Days (A/B)

Middle School Choir provides an opportunity for students to study vocal performance through the study of music in a variety of genres and styles including, classical, contemporary, pop, folk, jazz, musical theater, and the study of a solo off of the WSMA solo/ensemble list. Throughout the day to day rehearsals, students will study the music in regards to historical context, music theory, culture, and the aesthetic of the piece. The overall goal of the music department is to facilitate student growth towards independent musicianship, creating inquisitive and creative lifelong musicians and learners.

### Strings/Orchestra 6 7026

**Course Length** Year, Alternating Days (A/B)

Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students' understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student's experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Small group instruction allows for deeper personalization of the orchestra curriculum and encourages a stronger teacher-student relationship that allows for more frequent formative feedback to the student. The combination of large and small ensemble instruction creates the balance of maintaining a very high quality performing orchestral ensemble while encouraging students to make deeper personal connections with the curriculum, thus empowering them to continue their musical learning outside of the classroom.

### Studio Art 6

**3006**

**Course Length** Quarter

Studio Art is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize design thinking as a creative problem solving process in order to create artworks using drawing, painting, collage, and printmaking in a professional studio environment.

# 7TH GRADE Core Courses

## Language Arts 7

1807

**Course Length** Year

Seventh grade Language Arts emphasizes a rigorous approach of the integration of reading and writing strategies to develop students as authors by having them engage with the following genres: realistic fiction, historical documentary, research-based argumentative essay, literary analysis, poetry, and memoir. Students will further develop proficiency in organizing ideas, elaborating, improving sentence fluency, increasing word choice, and the use of conventions.

## Math 7

2207

**Course Length** Year

In this course students will analyze proportional relationships and use them to solve real-world and mathematical problems; apply and extend previous understandings of operation with fractions to add, subtract, multiply, and divide rational numbers; use properties of operations to generate equivalent expressions; and solve real-life and mathematical problems using numerical and algebraic expressions and equations. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Pre-Algebra

1220

**Course Length** Year

**Prerequisites** Math 7

In this course, students will work with radicals and integer exponents; understand the connections between proportional relationships, lines, and linear equations; analyze and solve linear equations and pairs of simultaneous linear equations; define, evaluate, and compare functions; use functions to model relationships between quantities; understand congruence and similarity using physical models, transparencies, or geometry software; and understand and apply the Pythagorean Theorem. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Science 7

1407

**Course Length** Year

The emphasis of the seventh grade science program is the presentation of scientific skills and content as they relate to the students' experiences. The units of study are divided into earth science, physics, cells and energy flow while incorporating the engineering and design process and inquiry throughout each unit.

## Social Studies 7

1507

**Course Length** Year

The Interconnected World and Early America  
7th grade Social Studies historians learn how contributions of early life in America impact societies, both past and present in our interconnected world. Through the integrated study of economics, geography, history, political science and the behavioral sciences, students apply skills of inquiry, collaboration, decision making and problem solving. The chrono period covered colonialism to 1900.

*The following curriculum is delivered throughout the year at various time frames, most frequently during resource block:*

### Academic Career Planning

Middle School Academic and Career Planning provides the foundation for students to explore options as they commence their academic and career planning during their middle school years. The ACP process personalizes each student's educational experience while providing opportunities to explore and set short- term goals in preparation for his/her future. Throughout the ACP process, students focus on four questions: Who Am I?, Where am I Going?, How do I Get There?, and What can I do now? Exploring these questions assists students in understanding their strengths, interests, potential career pathways, and potential post-secondary education.

### Choices & Wellness

Students will develop a greater sense of respect and responsibility with various topics regarding life choices and wellness. This course includes the Human Growth and Development curriculum. Parents are notified annually of lessons specific to Human, Growth, and Development.

### Digital Citizenship

Students today are surrounded by technology and use it every day to learn, collaborate, share, and play. Digital Citizenship is about creating thoughtful, empathetic citizens who know what is right and wrong, exhibit intelligent technology behavior, and make good choices when online. This course is intended to empower our learners to recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world so that they can act and model in ways that are safe, legal and ethical.

# 7TH GRADE Elective Courses

Our students' middle school elective programming can provide opportunities for students to experience challenging, relevant, and integrated learning that builds upon and deepens the core curriculum, assists in exploring areas of interest, and provides exposure to potential 21st century careers.

In 7th grade, students have the opportunity to select elective courses from our five elective area strands:

- Applied Technology and Engineering
- Visual and Performing Arts
- Information Technology and Entrepreneurship
- Health Science and Wellness
- World Languages

In addition, all 7th grade students are required to take a physical education course.

A visual representation of a 7th grade elective experience is below and course descriptions are on the following page:

Elective Strands	Applied Technology & Engineering	Visual & Performing Arts	Information Technology & Entrepreneurship	Health Science and Wellness	World Languages
7th Grade Elective Courses	Architecture and Construction	2D Art & Design	Video Chef		French 1A (Year Long)
	PLTW Design and Modeling in a Fab Lab	3D Art & Design	Animation Studio	PLTW Medical Detectives	German 1A (Year Long)
	Engineering in Motion	Community Art	PLTW App Creators		Latin 1A (Year Long)
	PLTW Robotics and Automation	Visual Art	Entrepreneurship & Marketing		Physical Education (Required, Year Long)
		Band (Year Long)		Spanish 1A (Year Long)	
	Woodworking	Choir (Year Long)	Video Game Academy	World Language Plus	
		Orchestra (Year Long)		Speak It!	

All classes are held every other day and are semester-long unless otherwise noted.



## Career and Technical Education Mission Statement

The mission of Elmbrook's Career and Technical Education (CTE) is to prepare students for career and life success in the local and global marketplace by cultivating all learners as thinkers, problem solvers, innovators, collaborators and communicators.

CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry'
- Preparation for high-skill, high-wage, high-demand careers.

## APPLIED TECHNOLOGY & ENGINEERING

### Architecture & Construction 7 2050

**Course Length** Semester, Alternating Days (A/B)

Have you ever wondered how architects design homes? How about what is hidden behind the walls in your house or apartment? In this fast paced, engaging course, students will learn basic home design principles and construction techniques. This will be completed through the design of a small home as well as constructing a model home. This course is not repeatable.

### PLTW Design and Modeling in a Fab Lab 7 2051

**Course Length** Semester, Alternating Days (A/B)

Have you ever dreamed of becoming an engineer or some type of designer? Then this course is for you! Design and Modeling in a Fab Lab students discover the engineering design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply the design process throughout the unit to design solutions to various problems. Students will use a Fab Lab to bring their designs to life using 3D printers, laser engravers, CNC technology, and vinyl cutters.

### Engineering in Motion 7 2052

**Course Length** Semester, Alternating Days (A/B)

Engineering design is brought to life in this exciting course where students will design and create prototypes of real life machines. Students combine their creativity with a design thinking process to build some of the fastest, strongest and coolest vehicles, structures, and mechanisms.

### PLTW Robotics and Automation 7 2053

**Course Length** Semester, Alternating Days (A/B)

Design, Build, and Program a Robot! Students use tools such as the engineering design process, an engineering notebook, and VEX Robotics® programming software to invent and innovate. Learn how creative thinking and problem solving can change your world! Automation and Robotics (AR) allows students to trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics® platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

### Woodworking 7 2054

**Course Length** Semester, Alternating Days (A/B)

Come join a class that will prepare you to design and construct a variety of woodworking projects. Learn the basics of woodworking from hand tools to power tools and take home some cool projects that you can say you made! We will show you how projects go from being an idea all the way through a completed piece of work. Discover things like how to layout and square a board. Then, learn how to join boards together to form your projects. Finally, learn about different finishing techniques commonly used in the industry.

## HEALTH SCIENCE &amp; WELLNESS

**Physical Education 7 (PE 7)****1307****Course Length** Year, Alternating Days (A/B)

In this course, students will participate in a variety of activities that will focus on fitness, practice more advanced movement forms, and develop self-sufficiency and social interaction. The major emphasis of physical education is on life-long fitness development and wellness. Concepts of leadership, teamwork, responsibility, inclusion, positive attitudes, and an increased knowledge of physical activity and its effects on the body are emphasized. Students will have the opportunity to be active in 3 primary units: Cooperatives, Fitness Concepts, and Motor Skills and Movement Patterns.

**PLTW Medical Detectives 7****5051****Course Length** Semester, Alternating Days (A/B)

In the Medical Detectives (MD) unit, students play the role of real-life medical detectives as they collect and analyze medical data to diagnose disease. They solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, dissect a sheep brain, investigate disease outbreaks, and explore how a breakdown within the human body can lead to dysfunction.

This course is not repeatable.

**Video Chef 7****5050****Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

## INFORMATION TECHNOLOGY &amp; ENTREPRENEURSHIP

**Animation Studio 7****4050****Course Length** Semester, Alternating Days (A/B)

Begin your journey to becoming an animator for companies like Disney, Dreamworks, and Universal by bringing your creativity and personal style to life using a variety of animation mediums. Students work individually as well as in small teams to create projects including but not limited to digital stop-motion, computer / 3D animation, and augmented reality. No previous experience needed!

**PLTW App Creators 7****4051****Course Length** Semester, Alternating Days (A/B)

Businesses and individuals alike are making millions of dollars by developing apps that entertain, solve problems, and make life better. This class will get you well on your way to making your very own apps regardless of how much or how little previous coding experience you have had. Limited only by your imagination, you will have fun customizing your experience by developing apps that interest you while learning software engineering concepts. App Creators (AC) introduces students to the field of computer science and the concepts of computational thinking, through the creation of mobile apps. Students are challenged to be creative and innovative, as they collaboratively design and develop mobile solutions to engaging, authentic problems.

This course is not repeatable.

**Entrepreneurship & Marketing 7****4061****Course Length** Semester, Alternating Days (A/B)

What unique perspectives do young entrepreneurs bring to finding solutions? Explore the aspects of designing an entrepreneurial business venture from ideation, plan, pitch, and launch. Using the design thinking process and application of business concepts, students learn entrepreneurship skills such as problem-solving, critical thinking, collaboration, adaptability, and creativity. The class culminates with the launch of a student-designed business.

This course is not repeatable.

**Video Chef 7****5050****Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

**Video Game Academy 7****4053****Course Length** Semester, Alternating Days (A/B)

In this engaging and interactive class students will have the opportunity to explore game design, apply coding principles, and transform their work to create their very own video game. During the semester, students will visit an actual local arcade to play those very same games we will be learning about during the semester. It makes NO difference if you're new to video game design or an advanced user, come join this exciting class.

## VISUAL & PERFORMING ARTS

*Note: All visual and performing arts courses are repeatable year after year, but not twice in the same year.*

### 2D Art & Design 7 3050

**Course Length** Semester, Alternating Days (A/B)

2D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, digital art, and printmaking in a professional studio environment.

### 3D Art & Design 7 3051

**Course Length** Semester, Alternating Days (A/B)

3D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create 3 dimensional artworks using a variety of sculptural mediums such as; clay, cardboard, paper mache, plaster, found objects, recycled materials, etc

### Band 7 7007

**Course Length** Year, Alternating Days (A/B)

Band classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music.

### Chorus 7 7017

**Course Length** Year, Alternating Days (A/B)

Middle School Choir provides an opportunity for students to study vocal performance through the study of music in a variety of genres and styles including, classical, contemporary, pop, folk, jazz, musical theater, and the study of a solo off of the WSMA solo/ensemble list. Throughout the day to day rehearsals, students will study the music in regards to historical context, music theory, culture, and the aesthetic of the piece. The overall goal of the music department is to facilitate student growth towards independent musicianship, creating inquisitive and creative lifelong musicians and learners.

### Community Art 3052

**Course Length** Semester, Alternating Days (A/B)

Community Art is an art course designed for students who are looking to expand their art outside the classroom. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have the opportunity to collaborate with instructors and peers to create works of art that will have a positive impact on the community. Students will utilize a design thinking process to create artworks using traditional and non-traditional art forms in a professional studio environment.

### Visual Art 7 3037

**Course Length** Semester, Alternating Days (A/B)

Visual Art is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, and printmaking in a professional studio environment.

### Strings/Orchestra 7 7027

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Previous orchestra experience or consent of instructor

Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students' understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student's experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Small group instruction allows for deeper personalization of the orchestra curriculum and encourages a stronger teacher-student relationship that allows for more frequent formative feedback to the student. The combination of large and small ensemble instruction creates the balance of maintaining a very high quality performing orchestral ensemble while encouraging students to make deeper personal connections with curriculum, thus empowering them to continue their musical learning outside of the classroom.

## World Languages Mission Statement

Our mission is to empower our students to be global citizens who are linguistically proficient and culturally competent.

We believe languages:

- are a gateway to understanding multiple perspectives essential to today’s society;
- foster the exchange of knowledge, information, and ideas;
- strengthen and broaden academic performance across subjects;
- Increases academic achievement by improving memory, listening skills, curiosity, critical thinking, and problem solving;
- increase college and workforce readiness and marketability;
- enriches personal lives.

*Note: All language courses are a Level 1 course. Please be mindful of this when selecting your course and language of choice. Students are required to take Level 1A before taking Level 1B. Level 1A is not offered in 8th grade. Successful completion of 1A and 1B earns a high school credit.*

### French 1A 6007

**Course Length** Year, Alternating Days (A/B)

Have you ever wanted to eat a croissant while looking at the Eiffel Tower? Have you ever wanted to travel to Paris and stroll on the Champs-Elysees? Have you ever wanted to flip a crepe and say “Oh là là!” If so, French is for you! You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the French-speaking world. Bon voyage!

Completing French 1A and French 1B is the equivalent of French I at the high school level.

### German 1A 6017

**Course Length** Year, Alternating Days (A/B)

Here are the top three reasons why you should take German: 1. English and German belong to the same language family. That’s why German is easy to learn. 2. Want to make money? Germany is the largest European trading partner with the US. 3. Hate to pay tuition? Go to a German school for free! Most German universities don’t charge tuition. If this sounds good to you, take German! In German you’ll learn the basics of communicating and be able to talk about yourself, your friends and your family.

Completing German 1A and German 1B is the equivalent of German I at the high school level.

### Latin 1A 6027

**Course Length** Year, Alternating Days (A/B)

Travel back in time 2000 years and enter a world of gladiators, merchants, and mythology. In Latin 1A & 1B, we follow in the footsteps of Caecilius, a Roman banker, as he walks the streets of Pompeii to go to a show, shop for a new toga, or cast a vote for his favorite politician. In addition to building a strong foundation in Latin, the language of the ancient Romans, students in this class will examine a variety of cultural topics such as Roman entertainment, daily life (food, clothing, family, etc.), Greek & Roman mythology, and history. In the second half of Latin 1B, we will hit the road to gain perspective of life in the Roman Empire by traveling to ancient Britannia and Egypt. Lastly, students of every level of Latin will expand their English vocabulary by connecting their Latin vocabulary words to English derivatives.

Completing Latin 1A and Latin 1B is the equivalent of Latin I at the high school level.

### Mandarin Chinese 1A 6047

**Course Length** Year, Alternating Days (A/B)

Do you want to go on an adventure through the unique Chinese culture, and taste delicious Chinese food? Do you want to learn a language through stories of Jackie Chan, Mulan, or Chinese Zodiac animals? Do you want to visit China someday, and see the famous and majestic Great Wall and Forbidden City? If so, Mandarin Chinese is for you! It’s useful too – Chinese has the most first language speakers of any language, and China is increasingly important on the world stage. You will learn this fascinating language in easy steps. Read, write, speak, and think in a whole new way.

Completing Mandarin Chinese 1A and Mandarin Chinese 1B is the equivalent of Chinese I at the high school level.

## Spanish 1A 6037

**Course Length** Year, Alternating Days (A/B)

¡Hola! Wouldn't it be fun to travel to Spain? Mexico? Guatemala? Argentina? Wouldn't you like to learn all about the different types of foods, holidays, and cultural differences from the 21 Spanish-speaking countries? If so, take Spanish. You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the Spanish-speaking world. Come discover what makes the Hispanic cultures so diverse and find new ways to connect to the larger world. ¡Buen Viaje!

Completing Spanish 1A and Spanish 1B is the equivalent of Spanish I at the high school level.

## Speak It! 7 6050

**Course Length** Semester, Alternating Days (A/B)

Whether you simply want to refine your speaking skills or if you love to speak in public, SPEAK IT! is the class for you. This course is designed to help you become more comfortable speaking in class, in front of an audience, or on the stage. Students will learn strategies to clearly and effectively communicate with others in a variety of settings. In addition, students will learn performance skills that will help with acting, forensics, and presentations. Students will learn to communicate ideas effectively with confidence!

This is a repeatable course.

## World Language Plus 7 6051

**Course Length** Semester, Alternating Days (A/B)

Students will learn the fundamentals of how to learn a language using games, peer collaboration, and different language apps. Students will select a language that is not already offered as a separate course to study. Units are based on student language level and interests, and may include sports, food, shopping, international travel, and careers. Students will explore current events and cultures of the language chosen. World Language Plus can be taken as an opportunity to explore languages and language learning. By the end of this course, students will be able to compare their first language with a new language, and identify and apply strategies needed for learning a language.

This is a repeatable course.

# 8TH GRADE Core Courses

## Algebra I 1218

**Course Length** Year

**Prerequisites** Math 7 and/or Pre-Algebra

Algebra I is the foundation for mathematical reasoning. Strategies and skills learned in Algebra 1 are transferred to nearly every other content area and are used in everyday life. The course is designed to use inquiry based strategies to help build conceptual understanding, vocabulary, and to help students most effectively explain their reasoning. Key concepts include solving and graphing linear equations, functions with exponents, polynomial and quadratic functions, and statistics. Students will be asked to discover and apply formulas to solve for unknowns and develop problem solving ability.

Algebra I is a high school level course. Prerequisites are non-negotiable.

## Honors Geometry 1228

**Course Length** Year

**Prerequisites** Algebra I

Honors Geometry is a rigorous and fast paced course that increases the depth of study related to concepts in Geometry. This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods) and algebraic applications. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

Honors Geometry is a high school level course. Prerequisites are non-negotiable.

## Language Arts 8 1808

**Course Length** Year

Eighth grade Language Arts continues to emphasize a rigorous approach to the integration of reading and writing strategies to develop students as authors by having them engage with the following genres: investigative journalism, literary analysis, research-based position paper, poetry, and fantasy. Grammar instruction is embedded in the writing process and includes parts of speech, punctuation, and sentence structure. Classic, current, and multicultural literature serves as an impetus for the related skills of communication, speaking, listening, vocabulary development, and writing.

## Pre-Algebra 1220

**Course Length** Year

**Prerequisites** Math 7

In this course, students will work with radicals and integer exponents; understand the connections between proportional relationships, lines, and linear equations; analyze and solve linear equations and pairs of simultaneous linear equations; define, evaluate, and compare functions; use functions to model relationships between quantities; understand congruence and similarity using physical models, transparencies, or geometry software; and understand and apply the Pythagorean Theorem. Communication (both written and oral), connections, problem solving, reasoning abstractly and quantitatively, construction of viable arguments, and real life problems are also integral parts of each lesson.

## Science 8 1408

**Course Length** Year

Eighth grade science is centered around doing the practices of science and engineering. Students will use the science content to develop their skills in these practices as well as learn themes (Cross Cutting Concepts) through science, such as cause and effect, patterns, and the structure-function relationship. Scientific skills will be applied to learn the topics for this year include basic chemistry, human body, genetics, sound, and light.

## Social Studies 8 1508

**Course Length** Year

The Interconnected World and Modern America 8th grade Social Studies historians learn how contributions of modern America impact societies, both past and present in our interconnected world. Through the integrated study of economics, geography, history, political science and the behavioral sciences, students apply skills of inquiry, collaboration, decision making and problem solving. The chrono period covered is 1900 to present.

*The following curriculum is delivered throughout the year at various time frames, most frequently during resource block:*

## **Academic Career Planning**

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Middle School Academic and Career Planning provides the foundation for students to explore options as they commence their academic and career planning during their middle school years. The ACP process personalizes each student's educational experience while providing opportunities to explore and set short-term goals in preparation for his/her future. Throughout the ACP process, students focus on four questions: Who Am I?, Where am I Going?, How do I Get There?, and What can I do now? Exploring these questions assists students in understanding their strengths, interests, potential career pathways, and potential post-secondary education.

## **Choices & Wellness**

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Students will develop a greater sense of respect and responsibility with various topics regarding life choices and wellness. This course includes the Human Growth and Development curriculum. Parents are notified annually of lessons specific to Human, Growth, and Development.

## **Digital Citizenship**

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Students today are surrounded by technology and use it every day to learn, collaborate, share, and play. Digital Citizenship is about creating thoughtful, empathetic citizens who know what is right and wrong, exhibit intelligent technology behavior, and make good choices when online. This course is intended to empower our learners to recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world so that they can act and model in ways that are safe, legal and ethical.

# 8TH GRADE Elective Courses

Our students' middle school elective programming can provide opportunities for students to experience challenging, relevant, and integrated learning that builds upon and deepens the core curriculum, assists in exploring areas of interest, and provides exposure to potential 21st century careers.

In 8th grade, students have the opportunity to select elective courses from our five elective area strands:

- Applied Technology and Engineering
- Visual and Performing Arts
- Information Technology and Entrepreneurship
- Health Science and Wellness
- World Languages

In addition, all 8th grade students are required to take a physical education course.

A visual representation of 8th grade elective offerings is below and course descriptions are on the following page:

Elective Strands	Applied Technology & Engineering	Visual & Performing Arts	Information Technology & Entrepreneurship	Health Science and Wellness	World Languages
8th Grade Elective Courses	Architecture and Construction	2D Art & Design	Video Chef		French 1B (Year Long)
	PLTW Design and Modeling in a Fab Lab	3D Art & Design	Animation Studio	PLTW Medical Detectives	German 1B (Year Long)
	Engineering in Motion	Community Art	PLTW App Creators		Latin 1B (Year Long)
	PLTW Robotics and Automation	Visual Art	Entrepreneurship & Marketing	Physical Education (Required, Year Long)	Mandarin Chinese 1B (Year Long)
		Band (Year Long)			Spanish 1B (Year Long)
	Woodworking	Choir (Year Long)	Video Game Academy	Physical Education (Required, Year Long)	World Language Plus
		Orchestra (Year Long)			Speak It!

All classes are held every other day and are semester-long unless otherwise noted.



## Career and Technical Education Mission Statement

The mission of Elmbrook's Career and Technical Education (CTE) is to prepare students for career and life success in the local and global marketplace by cultivating all learners as thinkers, problem solvers, innovators, collaborators and communicators.

CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry'
- Preparation for high-skill, high-wage, high-demand careers.

## APPLIED TECHNOLOGY & ENGINEERING

### Architecture & Construction 8 2055

**Course Length** Semester, Alternating Days (A/B)

Have you ever wondered how architects design homes? How about what is hidden behind the walls in your house or apartment? In this fast paced, engaging course, students will learn basic home design principles and construction techniques. This will be completed through the design of a small home as well as constructing a model home. This course is not repeatable.

### PLTW Design & Modeling in a Fab Lab 8 2056

**Course Length** Semester, Alternating Days (A/B)

Have you ever dreamed of becoming an engineer or some type of designer? Then this course is for you! Design and Modeling in a Fab Lab students discover the engineering design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply the design process throughout the unit to design solutions to various problems. Students will use a Fab Lab to bring their designs to life using 3D printers, laser engravers, CNC technology, and vinyl cutters.

### Engineering in Motion 8 2057

**Course Length** Semester, Alternating Days (A/B)

Engineering design is brought to life in this exciting course where students will design and create prototypes of real life machines. Students combine their creativity with a design thinking process to build some of the fastest, strongest and coolest vehicles, structures, and mechanisms.

### PLTW Robotics and Automation 8 2058

**Course Length** Semester, Alternating Days (A/B)

Design, Build, and Program a Robot! Students use tools such as the engineering design process, an engineering notebook, and VEX Robotics® programming software to invent and innovate. Learn how creative thinking and problem solving can change your world! Automation and Robotics (AR) allows students to trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics® platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

### Woodworking 8 2059

**Course Length** Semester, Alternating Days (A/B)

Come join a class that will prepare you to design and construct a variety of woodworking projects. Learn the basics of woodworking from hand tools to power tools and take home some cool projects that you can say you made! We will show you how projects go from being an idea all the way through a completed piece of work. Discover things like how to layout and square a board. Then, learn how to join boards together to form your projects. Finally, learn about different finishing techniques commonly used in the industry.

## HEALTH SCIENCE & WELLNESS

### Video Chef 8 5052

**Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

## PLTW Medical Detectives 8 5053

**Course Length** Semester, Alternating Days (A/B)

In the Medical Detectives (MD) unit, students play the role of real-life medical detectives as they collect and analyze medical data to diagnose disease. They solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, dissect a sheep brain, investigate disease outbreaks, and explore how a breakdown within the human body can lead to dysfunction.

This course is not repeatable.

## Physical Education 8 (PE 8) 1308

**Course Length** Year, Alternating Days (A/B)

In this course, students will participate in a variety of activities that will focus on fitness, practice more advanced movement forms, and develop self-sufficiency and social interaction. The major emphasis of physical education is on life-long fitness development and wellness. Concepts of leadership, teamwork, responsibility, inclusion, positive attitudes, and an increased knowledge of physical activity and its effects on the body are emphasized. Students will have the opportunity to be active in 3 primary units: Cooperatives, Fitness Concepts, and Motor Skills and Movement Patterns.

## INFORMATION TECHNOLOGY & ENTREPRENEURSHIP

### Animation Studio 8 4054

**Course Length** Semester, Alternating Days (A/B)

Begin your journey to becoming an animator for companies like Disney, Dreamworks, and Universal by bringing your creativity and personal style to life using a variety of animation mediums. Students work individually as well as in small teams to create projects including but not limited to digital stop-motion, computer / 3D animation, and augmented reality. No previous experience needed!

### PLTW App Creators 8 4055

**Course Length** Semester, Alternating Days (A/B)

Businesses and individuals alike are making millions of dollars by developing apps that entertain, solve problems, and make life better. This class will get you well on your way to making your very own apps regardless of how much or how little previous coding experience you have had. Limited only by your imagination, you will have fun customizing your experience by developing apps that interest you while learning software engineering concepts. App Creators (AC) introduces students to the field of computer science and the concepts of computational thinking, through the creation of mobile apps. Students are challenged to be creative and innovative, as they collaboratively design and develop mobile solutions to engaging, authentic problems.

This course is not repeatable.

### Video Chef 8 5052

**Course Length** Semester, Alternating Days (A/B)

In this innovative, blended curriculum course, students design and participate in a reality TV cooking show and competition. Students work in teams to develop fundamental kitchen skills, explore recipes, and create dishes all while recording, editing, and producing their very own show. Students will improve collaboration, communication, and technical skills, all while whipping up fun in the kitchen!

### Entrepreneurship & Marketing 8 4062

**Course Length** Semester, Alternating Days (A/B)

What unique perspectives do young entrepreneurs bring to finding solutions? Explore the aspects of designing an entrepreneurial business venture from ideation, plan, pitch, and launch. Using the design thinking process and application of business concepts, students learn entrepreneurship skills such as problem-solving, critical thinking, collaboration, adaptability, and creativity. The class culminates with the launch of a student-designed business!

This course is not repeatable.

### Video Game Academy 8 4059

**Course Length** Semester, Alternating Days (A/B)

In this engaging and interactive class students will have the opportunity to explore game design, apply coding principles, and transform their work to create their very own video game. During the semester, students will visit an actual local arcade to play those very same games we will be learning about during the semester. It makes NO difference if you're new to video game design or an advanced user, come join this exciting class.

## VISUAL & PERFORMING ARTS

*Note: All visual and performing arts courses are repeatable year after year, but not twice in the same year.*

### 2D Art & Design 8 3054

**Course Length** Semester, Alternating Days (A/B)

2D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, digital art, and printmaking in a professional studio environment.

### 3D Art & Design 8 3055

**Course Length** Semester, Alternating Days (A/B)

3D Art & Design is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of artmaking strategies and explore how images have been used throughout art history and within the contemporary world. Students will have choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create 3 dimensional artworks using a variety of sculptural mediums such as; clay, cardboard, paper mache, plaster, found objects, recycled materials, etc

### Band 8 7008

**Course Length** Year, Alternating Days (A/B)

Band classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music.

### Chorus 8 7018

**Course Length** Year, Alternating Days (A/B)

Middle School Choir provides an opportunity for students to study vocal performance through the study of music in a variety of genres and styles including, classical, contemporary, pop, folk, jazz, musical theater, and the study of a solo off of the WSMA solo/ensemble list. Throughout the day to day rehearsals, students will study the music in regards to historical context, music theory, culture, and the aesthetic of the piece. The overall goal of the music department is to facilitate student growth towards independent musicianship, creating inquisitive and creative lifelong musicians and learners.

### Community Art 8 3056

**Course Length** Semester, Alternating Days (A/B)

Community Art is an art course designed for students who are looking to expand their art outside the classroom. Within this course, students will be exposed to a variety of artmaking strategies and will explore how images have been used throughout art history and within the contemporary world. Students will have the opportunity to collaborate with instructors and peers to create works of art that will have a positive impact on the community. Students will utilize a design thinking process to create artworks using traditional and non-traditional art forms in a professional studio environment.

### Visual Art 8 3038

**Course Length** Semester, Alternating Days (A/B)

Visual Art is a hands-on art class that will reinforce and expand upon the basic art skills and techniques learned in Studio Art 6. Within this course, students will be exposed to a variety of art-making strategies and will explore how images have been used throughout history and within the contemporary world. Students will have a choice in their visual interpretation of each creation and in their approach to communicating ideas that are reflected in their work. Students will utilize a design thinking process to create artworks using drawing, painting, collage, and printmaking in a professional studio environment.

### Strings/Orchestra 8 7028

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Previous orchestra experience or consent of instructor

Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students' understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student's experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Small group instruction allows for deeper personalization of the orchestra curriculum and encourages a stronger teacher-student relationship that allows for more frequent formative feedback to the student. The combination of large and small ensemble instruction creates the balance of maintaining a very high quality performing orchestral ensemble while encouraging students to make deeper personal connections with curriculum, thus empowering them to continue their musical learning outside of the classroom.

## World Languages Mission Statement

Our mission is to empower our students to be global citizens who are linguistically proficient and culturally competent.

We believe languages:

- are a gateway to understanding multiple perspectives essential to today’s society;
- foster the exchange of knowledge, information, and ideas;
- strengthen and broaden academic performance across subjects;
- Increases academic achievement by improving memory, listening skills, curiosity, critical thinking, and problem solving;
- increase college and workforce readiness and marketability;
- enriches personal lives.

*Note: All language courses are a Level 1 course. Please be mindful of this when selecting your course and language of choice. Students are required to take Level 1A before taking Level 1B. Level 1A is not offered in 8th grade.*

*Successful completion of 1A and 1B earns a high school credit.*

### French 1B 6008

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** French 1A

Have you ever wanted to eat a croissant while looking at the Eiffel Tower? Have you ever wanted to travel to Paris and stroll on the Champs-Elysees? Have you ever wanted to flip a crepe and say “Oh là là!” If so, French is for you! You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the French- speaking world. Bon voyage!

Completing French 1A and French 1B is the equivalent of French I at the high school level.

### German 1B 6018

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** German 1A

Here are the top three reasons why you should take German: 1. English and German belong to the same language family. That’s why German is easy to learn. 2. Want to make money? Germany is the largest European trading partner with the US. 3. Hate to pay tuition? Go to a German school for free! Most German universities don’t charge tuition. If this sounds good to you, take German! In German you’ll learn the basics of communicating and be able to talk about yourself, your friends and your family.

Completing German 1A and French 1B is the equivalent of German I at the high school level.

### Latin 1B 6028

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Latin 1A

Travel back in time 2000 years and enter a world of gladiators, merchants, and mythology. In Latin 1A & 1B, we follow in the footsteps of Caecilius, a Roman banker, as he walks the streets of Pompeii to go to a show, shop for a new toga, or cast a vote for his favorite politician. In addition to building a strong foundation in Latin, the language of the ancient Romans, students in this class will examine a variety of cultural topics such as Roman entertainment, daily life (food, clothing, family, etc.), Greek & Roman mythology, and history. In the second half of Latin 1B, we will hit the road to gain perspective of life in the Roman Empire by traveling to ancient Britannia and Egypt. Lastly, students of every level of Latin will expand their English vocabulary by connecting their Latin vocabulary words to English derivatives.

Completing Latin 1A and Latin 1B is the equivalent of French I at the high school level.

### Mandarin Chinese 1B 6048

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Mandarin Chinese 1A

Do you want to go on an adventure through the unique Chinese culture, and taste delicious Chinese food? Do you want to learn a language through stories of Jackie Chan, Mulan, or Chinese Zodiac animals? Do you want to visit China someday, and see the famous and majestic Great Wall and Forbidden City? If so, Mandarin Chinese is for you! It’s useful too – Chinese has the most first language speakers of any language, and China is increasingly important on the world stage. You will learn this fascinating language in easy steps. Read, write, speak, and think in a whole new way.

Completing Mandarin Chinese 1A and Mandarin Chinese 1B is the equivalent of Chinese I at the high school level.

## Spanish 1B 6038

**Course Length** Year, Alternating Days (A/B)

**Prerequisites** Spanish 1A

¡Hola! Wouldn't it be fun to travel to Spain? Mexico? Guatemala? Argentina? Wouldn't you like to learn all about the different types of foods, holidays, and cultural differences from the 21 Spanish-speaking countries? If so, take Spanish. You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the Spanish-speaking world. Come discover what makes the Hispanic cultures so diverse and find new ways to connect to the larger world. ¡Buen Viaje!

Completing Spanish 1A and Spanish 1B is the equivalent of Spanish I at the high school level.

## Speak It! 8 6052

**Course Length** Semester, Alternating Days (A/B)

Whether you simply want to refine your speaking skills or if you love to speak in public, SPEAK IT! is the class for you. This course is designed to help you become more comfortable speaking in class, in front of an audience, or on the stage. Students will learn strategies to clearly and effectively communicate with others in a variety of settings. In addition, students will learn performance skills that will help with acting, forensics, and presentations. Students will learn to communicate ideas effectively with confidence!

This is a repeatable course.

## World Language Plus 8 6053

**Course Length** Semester, Alternating Days (A/B)

Students will learn the fundamentals of how to learn a language using games, peer collaboration, and different language apps. Students will select a language that is not already offered as a separate course to study. Units are based on student language level and interests, and may include sports, food, shopping, international travel, and careers. Students will explore current events and cultures of the language chosen. World Language Plus can be taken as an opportunity to explore languages and language learning. By the end of this course, students will be able to compare their first language with a new language, and identify and apply strategies needed for learning a language.

This is a repeatable course.



# RESOURCES

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- [Courses at a Glance](#)
- [Middle School Grading Scale](#)
- [District Middle School Fees](#)
- [Contact Information](#)

# COURSES AT A GLANCE

“\*\*” indicates that a course has (a) prerequisite(s). Please refer to the course descriptions in the Planning Guide for more information.  
“+” indicates that a course is NOT repeatable for credit the following year.

Course	Course#
<b>6th Grade - Core Courses</b>	
Language Arts 6	1806
Math 6	2206
Math 7*	2207
Pre-Algebra*	1220
Resource Period 6	1606
Science 6	1406
Social Studies 6	1506
<b>6th Grade - Electives “Wheel” (1 Quarter, Every Day)</b>	
Health Science & Wellness 6	5006
Innovators & Makers 6	4006
Technology, Engineering and Manufacturing 6	2106
Studio Art 6	3006
<b>6th Grade - Music (Year Long, Alt Days)</b>	
Band 6	7006
Chorus 6	7016
Strings/Orchestra 6	7026
<b>6th Grade - PE (Year Long, Alt Days)</b>	
PE 6	1306

Course	Course#
<b>7th Grade - Core Courses</b>	
Language Arts 7	1807
Math 7	2207
Pre-Algebra*	1220
Algebra 1*	1218
Science 7	1407
Social Studies 7	1507
PE 7 (Required, Year Long, Alt Days)	1307
Resource Period 7	1607
<b>7th Grade - Elective Courses</b>	
<b>APPLIED TECH &amp; ENGINEERING - Semester Long, Alt Days</b>	
Architecture and Construction 7+	2050
Design Modeling in a Fab Lab 7	2051
Engineering in Motion 7	2052
Robotics and Automation 7	2053
Woodworking 7	2054
<b>HEALTH SCIENCE &amp; WELLNESS - Semester Long, Alt Days</b>	
Video Chef 7	5050
Medical Detectives 7+	5051
<b>IT &amp; ENTREPRENEURSHIP - Semester Long, Alt Days</b>	
Animation Studio 7	4050
App Creators 7+	4051
Entrepreneurship & Marketing 7	4061
Video Chef 7	5050
Video Game Academy 7	4053
<b>MUSIC - Year Long, Alt Days</b>	
Band 7	7007
Chorus 7	7017
Strings/Orchestra 7	7027
<b>VISUAL ARTS - Semester Long, Alt Days</b>	
2D Art & Design	3050
3D Art & Design	3051
Community Art 7	3052
Visual Art 7	3037
<b>WORLD LANGUAGE - Year Long, Alt Days</b>	
French 1A	6007
German 1A	6017
Latin 1A	6027
Mandarin Chinese 1A	6047
Spanish 1A	6037
Speak It! 7 (Semester Long, Alt Days)	6050
World Language Plus 7 (Semester Long, Alt Days)	6051

Course	Course#
<b>8th Grade - Core Courses</b>	
Language Arts 8	1808
Pre-Algebra*	1220
Algebra 1*	1218
Honors Geometry*	1228
Science 8	1408
Social Studies 8	1508
PE 8 (Required, Year Long, Alt Days)	1308
Resource Period 8	1608
<b>8th Grade - Elective Courses</b>	
<b>APPLIED TECH &amp; ENGINEERING - Semester Long, Alt Days</b>	
Architecture and Construction 8	2055
Design Modeling in a Fab Lab 8	2056
Engineering in Motion 8	2057
Robotics and Automation 8	2058
Woodworking 8	2059
<b>HEALTH SCIENCE &amp; WELLNESS - Semester Long, Alt Days</b>	
Video Chef 8	5052
Medical Detectives 8	5053
<b>IT &amp; ENTREPRENEURSHIP - Semester Long, Alt Days</b>	
Animation Studio 8	4054
App Creators 8	4055
Entrepreneurship & Marketing 8	4062
Video Chef 8	5052
Video Game Academy 8	4059
<b>MUSIC - Year Long, Alt Days</b>	
Band 8	7008
Chorus 8	7018
Strings/Orchestra 8	7028
<b>VISUAL ARTS - Semester Long, Alt Days</b>	
2D Art & Design	3054
3D Art & Design	3055
Community Art 8	3056
Visual Art 8	3038
<b>WORLD LANGUAGE - Year Long, Alt Days</b>	
French 1B*	6008
German 1B*	6018
Latin 1B*	6028
Mandarin Chinese 1B*	6048
Spanish 1B*	6038
Speak It! 8 (Semester Long, Alt Days)	6052
World Language Plus 8 (Semester Long, Alt Days)	6053

# Middle School Grading Scale

Grade	Scale 1	Percent Range	Explanation
<b>A</b>	4	93-100%	Consistently demonstrates an excellent understanding of curriculum standards
<b>B</b>	3	85-92%	Consistently demonstrates a good understanding of curriculum standards
<b>C</b>	2	77-84%	Consistently demonstrates a fair understanding of curriculum standards
<b>D</b>	1	70-76%	Does not demonstrate consistent understanding of most curriculum standards
<b>F</b>	0	Below 70%	Does not demonstrate understanding of most curriculum standards

**I = Incomplete. This is a temporary grade until A, B, C, D or F is assigned.**



# Middle School Fees

Note: 2023-24 Registration and User Fees are pending board approval.

## REQUIRED REGISTRATION FEES

### **MATERIAL FEES** **\$85.00**

Material fees will help defray a portion of the cost of textbooks and other consumable supplies and materials for classroom instruction.

#### **Material Fees will be prorated as follows:**

If students enter after the First Quarter, they will pay 75%.

If students enter after the Second Quarter, they will pay 50%.

If students enter after the Third Quarter, they will pay 25%.

## USER FEES - OPTIONAL PARTICIPATION

User fees may be paid at the beginning of the year or within five days after the start of the activity.

### **Music, Drama, Athletics, Clubs (one time)** **\$40.00**

## POINT OF SALE - OPTIONAL (Fees subject to change)

### **Padlock - Hall Locker or Gym Locker** **\$5.00**

Note: 2 locks are required for 6th grade

### **Work Permit** **\$10.00**

### **Non-sufficient Fund Returned Check Service Charge** **\$20.00**

## EXAMPLES OF OTHER VARIABLE FEES

Field Trips

Student Planners

Science Goggles

Instrument Rental Fees

Lost Uniform/Textbook/Student ID/Padlock/Library

Device Repair/Replacement Fee

College Credit Fees

Co-Curricular Fees

# Contacts

To discuss your academic and career plan, please contact your school counselor:

## **PILGRIM PARK MIDDLE SCHOOL** **262.785.3920**

### **STUDENT SERVICES**

**Tammy Berghauer**  
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**Ben Farley**  
*7th Grade*  
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**Cindy Lakatos**  
*8th Grade*  
lakatos@elmbrookschools.org

**Heather Sibley**  
*Psychologist*  
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**Pam Brees**  
*Social Worker*  
breesp@elmbrookschools.org

### **SCHOOL ADMINISTRATION**

**Kelly Szesterniak**  
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**Elizabeth Nelson**  
*Associate Principal*  
nelsonel@elmbrookschools.org

## **WISCONSIN HILLS MIDDLE SCHOOL** **262.785.3960**

### **STUDENT SERVICES**

**Jason Grodsky**  
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**Colleen Gonzalez**  
*8th Grade*  
gonzalec@elmbrookschools.org

**Peggy Riemer**  
*Psychologist*  
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**Nicole Grube**  
*Social Worker*  
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### **SCHOOL ADMINISTRATION**

**Matt Schroeder**  
*Principal*  
schroedm@elmbrookschools.org

**Brandon Buchmann**  
*Associate Principal*  
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# HIGH SCHOOL Academic & Career Planning Guide

Brookfield Central High School | Brookfield East High School





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The mission of the School District of Elmbrook is to educate and inspire every student to think, to learn and to succeed.

The District's Vision and Core Values inspire the work of our students, staff and community as we prepare all students for life, college and career.

## Elmbrook Scholars are...

### Purpose-Driven Change Agents:

I know who I am. I understand my strengths and passions, and I know I can make a positive difference in the world. I empower and support those around me, and I am constantly finding ways to improve myself.

### Responsible Citizens:

I can think, feel, and act with respect for myself and others. I understand and value other perspectives and a collaborative approach. I can think critically and creatively about the world around me.

### Accomplished Communicators:

I clearly convey my thoughts, questions, emotions, and solutions in multiple settings and formats. I am an active listener and seek to understand.

### Emotionally Intelligent:

I am aware of my emotions and sensitive to those of others. I can work effectively with a variety of people.

### Resilient:

I embrace challenges, persevere and adapt when faced with internal and external obstacles. I am optimistic that I will find solutions to move forward.

### Kind & Grateful:

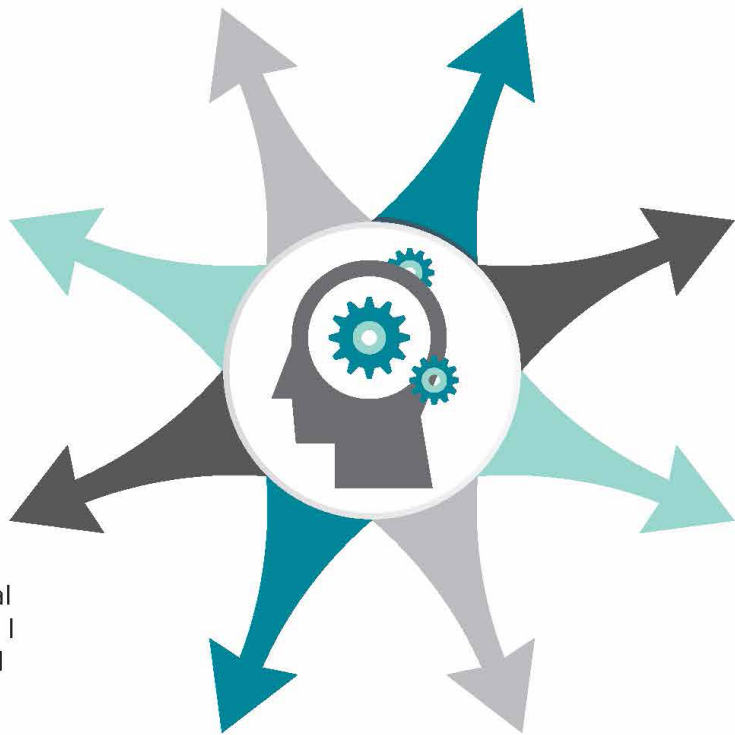
I am gracious, caring, and kind to others. I demonstrate empathy and compassion for those around me. I am thankful for new experiences and opportunities.

### Intellectually Curious:

I have genuine wonder and inquire about the world around me. I take initiative to advance my knowledge and skills. I am committed to lifelong learning.

### Flexible & Adaptable:

I can adapt to change. I seek and am responsive to feedback. I am able to work effectively in a variety of environments. I value other people's strengths and learn from them.





# HOW TO USE THIS PLANNING GUIDE

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The Elmbrook Schools **High School Academic and Career Planning Guide** is designed to assist students and families in exploring, designing, and refining a program of study throughout their high school experience. A student's program of study should include robust coursework, co-curricular activities, service learning, and career-based learning opportunities. The information in this guide is designed to assist students and families as they develop and refine an academic and career plan that supports academic, social, and emotional growth throughout the high school years.

## DOCUMENT NAVIGATION

- Scroll through pages like you would with any PDF document
- Use the links at the bottom of each page to navigate between sections
- Use the links within each Table of Contents page and section heading pages to navigate to programs of study, course listings by department, and specific pages within each section

# HOW TO USE THIS PLANNING GUIDE

## CAREER CLUSTER

There are 16 career clusters

## PATHWAYS

See all the different pathways available within a career cluster.

= Dual Credit Opportunity

## PROGRAM OF STUDY

Helps students visualize a set of options available to set them on a career pathway

## COURSE SEQUENCE

Understand suggested courses to take each year in a program of study

## ELECTIVES

Suggestions of additional courses students could take to further pursue a pathway

## ACTIVITIES

Extracurricular activities and clubs students interested in a pathway may find value in

## DUAL CREDIT

Opportunities within a Program of Study to obtain college credit(s) in addition to HS credit(s)

## CREDENTIALS

Specialized training and certifications that students can pursue within courses related to a Program of Study

## WORK-BASED LEARNING

A selection of work-based and real world experience-based opportunities available to students that relate to the specific Program of Study.

**MARKETING**

The Marketing Cluster includes career opportunities whose processes create, communicate, and deliver value to customers and manage customer relationships in ways that benefit the organization and its stakeholders.

**POSSIBLE CAREERS** *Where do I want to go?*

High School Diploma On-The-Job Training	Certifications/Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Marketing Communications</b>	• Business Administration • Public Relations • Public Relations Specialist of America	• Business Administration • Business Management • Social Business Management	• Business Administration • Communications Management • Marketing • Public Relations	• Master of Business Administration • Master of Marketing
<b>Marketing Management</b>	• Business Administration • International Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Master of Business Administration • Master of Marketing
<b>Marketing Research</b>	• Business Administration • International Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Master of Business Administration • Master of Marketing
<b>Merchandising</b>	• Business Administration • Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Master of Business Administration • Master of Marketing
<b>Professional Selling</b>	• Business Administration • Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Business Administration • Business Management • Marketing • Social Business Management	• Master of Business Administration • Master of Marketing

## CAREER TYPES BY PATHWAYS

Understand different types of jobs available within this career cluster and the education that may be needed to obtain that job.

**Data Science**

**SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY**

Students should consider taking ALL of these options:

**Mathematics:**

- Honors Pre-Calculus
- Statistics
- Data Science

**Computer Science:**

- Introduction to Computer Science and Game Development
- AP Computer Science Principles\* and/or
- AP Computer Science A\*

**Business Analysis Strand:**

- AP Statistics\*, Business Strategy & Mentorship

**Emerging Trends in IT Strand:**

- English II/Writing for Research, Project Pursuit: Trends in IT & Mentorship

**Engineering Foundations Strand:**

- English II/Writing for Research, PTW Engineering Design and Development & Mentorship

**Global Business Strand:**

- English II/Writing for Research, Business Strategy & Mentorship

**Media Solutions Strand:**

- English II/Writing for Research, Digital Imaging Seminar & Mentorship

**ACTIVITIES & CLUBS**

EXPLORATION EXPERIENCE & CAREERS AND TECHNICAL STUDENT ORGANIZATIONS

- NCA
- FEA
- HOA
- Chess Club
- Computer Science National Honor Society
- Math Club
- Mu Alpha Theta

**DUAL COLLEGE CREDIT OPPORTUNITIES**

- AP Statistics
- AP Calculus
- Computer Aided Design (CAD) - Advanced Standing at WCC (If student also completes PTW Intro to Engineering Design Software Applications - WCC)

**RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE**

**Business:**

- Software Applications\*

**Work-Based Learning Options:**

- LAUNCH (Work-based mentorship and project-based learning): Business Analytics Strand (Year 3), Data Science and Intelligence for Careers strand (Year 4), Global Business Strand (Year 3), Emerging Trends in IT strand (Year 3), Engineering Foundations Strand (Year 3), Youth Apprenticeship
- Health Informatics
- Information Technology, General IT: IT Essentials, Programming & Software Development and information Support and Services, Web & Digital Communications
- Marketing, Marketing Communications, Marketing Research/Competitive Intelligence
- Science, Technology, Engineering, & Mathematics (STEM): Engineering and Technology; Science & Math
- Local Internship
- State-Certified Cooperative Education
- Employability Skills Certificate
- Youth Leadership Certificate

## COURSE NUMBER

If a course has A and B sections, students must add both numbers to their planner. Courses listed as "Alt" will occur on an alternating A/B day schedule.

## COURSE TITLE

Grade level indication

## CREDITS

1.0 credit courses typically run for a full semester (2 terms).  
0.5 credit courses typically run for one, 9-week term.

**AP English Literature and Composition**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**1360A/1360B**

**Prerequisite(s)** English 10 English 11

**Strongly Recommended** AP English Language and Composition

In addition to the study of challenging literature, composition is an integral part of this rigorous, college-level course. Short-term writing goals include understanding the skills and strategies necessary to score well on the AP test. Long-term goals including enabling students to learn at a rate commensurate with their ability; to deal with material that intellectually mature students find engaging; to refine reading and writing skills important for success; not only in college but also in the professional world; to cultivate habits of reading, writing, and thinking that characterized life-long learning and enjoyment.

**WEIGHTED GRADE**

## WEIGHTED GRADE

If the credit value of a course is weighted on the student transcript due to its rigor, it will be indicated below the course description.

Indicates if a course is recognized as a core course for NCAA student-athlete initial-eligibility (YES/NO)

**COURSE PREREQUISITES**  
Understand the course(s) that are required or suggested to be completed prior to enrollment

## COURSE DESCRIPTION

## GRADUATION REQUIREMENTS

Details regarding what is required to graduate are included under each department heading in the Course Offerings section.

**ENGLISH**

**Graduation Requirements:** 4.0 credits including English 9 or Honors English 9 (1 credit), English 10 or Honors English 11 or AP Language & Composition (1 credit), 2 English Electives (0.5 credit each)

AP English Language and Composition	1361A/1361B
Grade Level 11-12	Grade Level 11-12
Credit/Semester 1.0	Credit/Semester 0.5
Repeatable No	Repeatable No
NCAA Yes	NCAA Yes
Prerequisite(s) English 10	Prerequisite(s) English 10

**Strongly Recommended** AP English Language and Composition

In addition to the study of challenging literature, composition is an integral part of this rigorous, college-level course. Short-term writing goals include understanding the skills and strategies necessary to score well on the AP test. Long-term goals including enabling students to learn at a rate commensurate with their ability; to deal with material that intellectually mature students find engaging; to refine reading and writing skills important for success; not only in college but also in the professional world; to cultivate habits of reading, writing, and thinking that characterized life-long learning and enjoyment.

**WEIGHTED GRADE**

## TABLE OF CONTENTS

Use this link to get jump to the main table of contents page

## INTERACTIVE PAGE FOOTER

Use any of these links to jump to that section's interactive table of contents page



# DEFINITIONS

Throughout this **High School Academic and Career Planning Guide**, Elmbrook School District uses the following terms to help guide students through the selection of coursework and to support their decision making.

<b>Career Cluster</b>	Refers to the groups of the 16 nationally recognized occupations and industries that have a set of foundational knowledge and skills in common
<b>Career Pathway</b>	Multi-year program of academic and technical study that prepares students for a full range of post-secondary options within each career cluster. Career pathways provide a context for exploring career options at all levels of education. Career pathways link student learning to the knowledge and skills needed for future education and employment.
<b>Program of Study</b>	A coordinated, non-duplicative sequence of academic and technical content and the secondary and postsecondary level. Each program of study incorporates challenging, state-identified academic standards; addresses academic and technical knowledge, as well as employability skills; and is aligned to the needs of industries in the state and region.
<b>Sequence of Courses</b>	Recommended sequence of courses within each program of study that provide students opportunities to explore and develop skills within a specified career area.
<b>Related Electives</b>	Within a program of study, these courses provide students additional opportunities within the specified career area or opportunities to develop skills and knowledge in a closely related career area.
<b>Dual Credit</b>	High School students may earn both high school and postsecondary credit from a technical college or a four-year college university for successfully completing a college level course. These courses are often referred to as “Dual Credit”. Eligible courses within this guide are often noted with the letters TC, CIS or CAPP in the course description. Additional fees may apply.
<b>Work-Based Learning</b>	Extended educational opportunities in which students engage in authentic and relevant work aligned with a career pathway. These experiences allow students to participate in a professional work environment and assist with career skill development and decision-making. These opportunities may provide varied levels of support, depending upon students’ individual needs
<b>Credentials</b>	Credentials awarded to students by an independent third party verifying qualifications or competencies in a career skill area. Industry-recognized certifications are sought or accepted by employers as a recognized, preferred or required credentials for recruitment, screening, hiring, retention or advancement purposes of their employees.





# ACADEMIC & CAREER PLANNING

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## PROCESS OVERVIEW ..... 8

- Student Outcomes by Grade Level
- Graduation Credit Requirements
- My Academic & Career Planning 4-Year Worksheet

# ACADEMIC & CAREER PLANNING OVERVIEW

Academic and Career Planning (ACP) is a self-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post-secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

## Academic & Career Planning is:

- A student driven vision of personal future goals
- Based on deep understanding and reflection of strengths, interests, values and learning styles
- Connecting goals to collect career exploration and planning and preparing a personal plan for achieving their vision and goals. Students build and grow their plan from one year to the next as they practice setting goals and revising their own Academic and Career Plan.
- Supported by meaningful adult relationships (staff, counselors, parents/guardians, community members)



# STUDENT OUTCOMES BY GRADE LEVEL

## 9<sup>th</sup> GRADE

### AS A HIGH SCHOOL FRESHMAN, I CAN...

- describe and value my personal strengths
- identify my career clusters and career pathways of interest
- evaluate class rigor and make connections to my postsecondary options
- develop short and long term goals based upon my expanding/narrowing interests and self discovery.
- purposefully engage in academic and extracurricular experiences/activities that will assist in developing my strengths and interests and whole self.

## 10<sup>th</sup> GRADE

### AS A HIGH SCHOOL SOPHOMORE, I CAN...

- describe and value my personal strengths
- identify my career clusters and career pathways of interest
- purposefully engage in academic opportunities and extracurricular activities that will assist in developing my strengths and interests
- revise short and long term goals based upon my expanding/narrowing interests and self discovery

## 11<sup>th</sup> GRADE

### AS A HIGH SCHOOL JUNIOR, I CAN...

- describe and value my personal strengths
- research and analyze post-secondary options that align to my skills and interests
- appraise the rigor of and my achievement in coursework and outside school activities along with the impact on my postsecondary options
- purposefully engage in academic learning and extracurricular activities that will further develop my strengths and interests
- critique and revise (if appropriate) short and long term goals based upon my changing interests, passions, and skills.

## 12<sup>th</sup> GRADE

### AS A HIGH SCHOOL SENIOR, I CAN...

- describe and value my personal strengths
- appraise postsecondary options in light of my academic and personal skills, interests, and goals.
- evaluate the rigor and my achievement in coursework, extracurricular, and other outside activities and their impact on my postsecondary options
- critique my plan to ensure it incorporates my talents, strengths, passions, and skills in order to achieve relevant short and long term goals and outcomes.

# GRADUATION CREDIT REQUIREMENTS

The information in this guide is intended to help students in their course selections for the upcoming academic year. Selections should be made with a great deal of thought because many of the courses offered in the upcoming year will be based on the selections students make. Student high school and post high school plans should be kept in mind when making their course selections. High school counselors are available to assist students course selection. The next page will serve as a worksheet for you in determining which required courses you have yet to take. Students must register for a minimum of 3 credits per semester, 6 credits per year.

<b>ARTS</b>	<b>TOTAL CREDITS:</b>	<b>1.0</b>
Fine or Practical Arts Courses		1.0
<b>BUSINESS</b>	<b>TOTAL CREDITS:</b>	<b>0.5</b>
Personal Finance		0.5
or		
Financial Management and Investing		0.5
<b>ENGLISH</b>	<b>TOTAL CREDITS:</b>	<b>4.0</b>
English 9 or Honors English 9		1.0
English 10 or Honors English 10		1.0
English 11 or AP English Language & Composition		1.0
English Elective 1		0.5
English Elective 2		0.5
<b>HEALTH</b>	<b>TOTAL CREDITS:</b>	<b>0.5</b>
<b>MATHEMATICS</b>	<b>TOTAL CREDITS:</b>	<b>3.0</b>
<b>PHYSICAL EDUCATION</b>	<b>TOTAL CREDITS:</b>	<b>1.5</b>
PE 09		0.5
Physical Education Elective 1		0.5
Physical Education Elective 2		0.5
<b>SCIENCE</b>	<b>TOTAL CREDITS:</b>	<b>3.0</b>
<b>SOCIAL STUDIES</b>	<b>TOTAL CREDITS:</b>	<b>3.5</b>
World History or AP World History		1.0
Human Geography or AP Human Geography*		0.5
20th Century American History or AP U.S. History		1.0
Principles of American Democracy or AP US Government and Politics**		0.5
Economics or AP Micro Economics or AP Macro Economics		0.5
<b>ELECTIVES***</b>	<b>TOTAL CREDITS:</b>	<b>7.0</b>
<b>TOTAL CREDITS REQUIRED FOR GRADUATION:</b>		<b>24</b>

*\*Beginning with the graduating class of 2026*

*\*\*AP United States Government and Politics is a 1 credit course and needs to be completed in its entirety to fulfill graduation requirements.*

*\*\*\* 7.0 credits of electives begins with the graduating class of 2026. For the graduating classes of 2022-2025, 7.5 credits are required.*

# MY ACP 4-YEAR WORKSHEET

Use these pages to plan out your high school courses. Print these pages for your use and/or records. When deciding which courses to select, students should first focus on meeting graduation requirements, then include courses that fit within their academic and career plan and post-secondary goals.

GRADE 9			
<b>Required Courses:</b>		English: Mathematics: Physical Education: Science: Social Studies: Electives:	
SEMESTER 1		SEMESTER 2	
TERM 1	TERM 2	TERM 3	TERM 4

GRADE 10			
<b>Required Courses:</b>		English: Mathematics: Physical Education: Science: Social Studies: Electives:	
SEMESTER 1		SEMESTER 2	
TERM 1	TERM 2	TERM 3	TERM 4

## GRADE 11

<b>Required Courses:</b>	English: Mathematics: Physical Education: Science: Social Studies: Electives:
--------------------------	--

### SEMESTER 1

### SEMESTER 2

TERM 1

TERM 2

TERM 3

TERM 4

TERM 1	TERM 2	TERM 3	TERM 4

## GRADE 12

<b>Required Courses:</b>	English: Mathematics: Physical Education: Science: Social Studies: Electives:
--------------------------	--

### SEMESTER 1

### SEMESTER 2

TERM 1

TERM 2

TERM 3


TERM 4

TERM 1	TERM 2	TERM 3	TERM 4



# SIGNATURE LEARNING OPPORTUNITIES

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 Throughout this Academic and Career Planning Guide, the Elmbrook infinity symbol denotes courses that may be taken for college credit.

## **ELMBROOK PROMISE**

Serving students to access college coursework while in high school. Empowering students to be consumers of their education. Discovering pathways and opening doors to opportunities in the future. Our goal is to offer the potential for up to 30 college credits upon high school graduation.

## **SIGNATURE LEARNING OPPORTUNITIES**

- Advanced Placement
- On-Campus Dual Credit Opportunities
- Off-Campus Opportunities
- Career Based Learning Opportunities

# ADVANCED PLACEMENT

Advanced Placement (AP) courses are offered by the Art, Computer, English, Mathematics, Science and Social Studies departments. These courses offer curriculum defined by The College Board. Advanced Placement courses are equivalent to college level curriculum and require approximately nine to ten hours of out-of-class time per week. The Advanced Placement Examinations are offered in the spring and may be taken by any high school student as well as those enrolled in the Advanced Placement course. Based on their Advanced Placement test score, students may be eligible for college credit or meet postsecondary prerequisite course requirements upon enrollment. All Advanced Placement courses are weighted. There is no drop down for AP Courses.

## Advanced Placement

Department	Course #	Course Name	Credits	Prerequisite(s)
AP Capstone	7901A/7901B	Research	1.0	Advanced Placement Seminar
AP Capstone	7902A/7902B	Seminar	1.0	None
Art	1164	Art & Design (Repeatable Course)	1.0	At least 4 art classes including a level II course and/or Art Seminar or consent of instructor with portfolio
Art	1160A/1160B	Art History	1.0	None
Computer Science	1260A/1260B	Computer Science A	1.0	Algebra II (concurrent) or consent of instructor
Computer Science	1261	Computer Science Principles	1.0	None
English	1361A/1361B	English Language and Composition	1.0	English 10
English	1360A/1360B	English Literature and Composition	1.0	English 10 and English 11. AP English Language and Composition is strongly recommended
Mathematics	1860A/1860B	AB Calculus	1.0	Precalculus, Honors Precalculus
Mathematics	1861A/1861B	BC Calculus	1.0	Honors Precalculus or AP AB Calculus
Mathematics	1862A/1862B	Statistics	1.0	Honors Algebra II or Statistics and Functions and Trigonometry
Science	2162A/2162B	Environmental Science	1.0	Successful completion of Biology and Chemistry strongly recommended
Science	2160A/2160B	Biology	1.0	Successful completion of Biology and Chemistry strongly recommended
Science	2161A/2161B	Chemistry	1.0	Successful completion of or concurrent with Algebra II and Chemistry
Science	2165A/2165B	Physics I	1.0	Algebra II or concurrent enrollment
Science	2166A/2166B	Physics II: Algebra Based	1.0	None
Science	2164A/2164B	Physics C	1.0	Physics or AP Physics I and AP Calculus or concurrent enrollment in AP Calculus
Social Studies	2260A/2260B	European History	1.0	World History
Social Studies	2273A/2273B	Human Geography	1.0	None
Social Studies	2261	Macro Economics	0.5	None
Social Studies	2262	Micro Economics	0.5	None
Social Studies	2263A/2263B	Psychology	1.0	None
Social Studies	2264A/2264B	United States Government & Politics	1.0	None
Social Studies	2265A/2265B	United States History	1.0	World History
Social Studies	2266A/2266B	World History	1.0	World History



# ON-CAMPUS DUAL CREDIT

High School students may earn both high school and postsecondary credit from a technical college or a four-year college university for successfully completing a college level course. These courses are often referred to as “Dual Credit”. Eligible courses within this guide are often noted with the letters TC, CIS or CAPP in the course description. Additional fees will apply.

## Gateway Technical College (via Start College Now)

Department	Elmbrook Course Name	Elmbrook Course #	HS Credits	College Credits	College Course
Science	Nursing Assistant - CNA	2116IP (In Person) 2116V (Virtual)	0.5	2	543-200

## Marquette University

Department	Elmbrook Course Name	Elmbrook Course #	HS Credits	College Credits	MU Course
LAUNCH	Educational Inquiry 1: Critical Perspectives on Education	7816A/7816B	1.0	3	EDUC 1000

## University of Wisconsin - Milwaukee

Department	Elmbrook Course Name	Elmbrook Course #	HS Credits	College Credits	UWM Course
Business	Business & Society	7823	1.0	3	BUS ADM 200

## University of Wisconsin - Oshkosh (CAPP)

Department	Elmbrook Course Name(s)	Elmbrook Course #	HS Credits	College Credits	UWO Course
Business	Financial Management & Investing	1211	0.5	3	Business 231
English	Creative Writing	1315	0.5	3	English 204
English	Literature in Film	1365	0.5	3	English 231
English	Public Speaking	1325	0.5	3	Communication 111
English	Writing for College	1326	0.5	3	Writing 101
Mathematics	Calculus III	1817A/1817B	1.0	4	Math 273
Mathematics	Precalculus	1809A/1809B	1.0	5	Math 108
Mathematics	Statistics AND Data Analysis	TBD	1.0	3	Math 109
World Language	French 5	1605A/1605B	1.0	5	French 204
World Language	German 5	1615A/1615B	1.0	5	German 204
World Language	Mandarin Chinese 4	1644A/1644B	1.0	4	Chinese 210
World Language	Spanish 5	1635A/1635B	1.0	5	Spanish 204
World Language	Spanish 6	1636A/1636B	1.0	5	Spanish 312

## University of Minnesota (CIS)

Department	Elmbrook Course Name	Elmbrook Course #	HS Credits	College Credits	UoM Course Name
World Languages	Latin 4	1624A/1624B	1.0	4	Latin 3003
World Languages	Latin 5	1625A/1625B	1.0	4	Latin 3004

### Waukesha County Technical College (Transcripted Credit)

Department	Elmbrook Course Name	Elmbrook Course #	HS Credits	College Credits	Prerequisites
Art	Design Drawing & Color Theory	1170	0.5	3	Junior/Senior standing. Enrollment in Elmbrook Graphic Design Academy
Art	Digital Illustration	1122	0.5	3	Junior/Senior standing. Enrollment in Elmbrook Graphic Design Academy
Art	Image Editing/Photoshop	1173	0.5	3	Junior/Senior standing. Enrollment in Elmbrook Graphic Design Academy
Art	Page Layout/InDesign	1172	0.5	3	Junior/Senior standing. Enrollment in Elmbrook Graphic Design Academy
Applied Technology & Engineering	Computer Aided Design (CAD)	1032	0.5	4	To receive college credit, student must also complete PLTW Intro to Engineering Design
Science	Culture of Healthcare	1505A/1505B	1.0	2	None
Science	Medical Terminology	1510A/1510B	1.0	3	Biology

### Waukesha County Technical College (Advanced Standing)

Advanced Standing courses provide high school students with “credit in escrow” because the application of the credit is delayed until students enroll in a technical college program. No fees are charged to the student. Classes are taught by high school faculty who hold a current DPI license in the related area of instruction. High school course(s) or competencies are determined to be equivalent or comparable to a technical college course. Agreements require a minimum of a 3.0 grade point on a 4.0 scale for students to earn credit. Open to students in 11th and 12th grade, with the exception of Project Lead the Way (PLTW), which allows grades 9-12. The student must meet all conditions of the articulation agreement. Technical college credits are awarded; however, technical college grades are not given for these courses.

Department	Elmbrook Course Name	Elmbrook Course #	HS Credits	College Credits	Prerequisites
Applied Technology & Engineering	Automotive Technology I	1002	0.5	2	None

# OFF-CAMPUS OPPORTUNITIES

## Waukesha County Technical College Dual Enrollment Academy (DEA)

WCTC'S Dual Enrollment Academy (DEA) is designed to give high school seniors (apply during junior year in high school) a jump start in high-demand occupations, awarding participants with a WCTC certificate upon successful completion along with earning high school credits. High school students will spend the majority of their school day, both the fall and spring semesters of their senior year, at WCTC. Prospective students should have a strong interest in pursuing a career in their chosen program area. Students must be in good academic standing with a minimum 2.0 high school GPA and also meet other WCTC program requirements. Parental and high school approval is required for a student to be accepted into the program. The District's responsibility to pay for tuition, fees, and books and other necessary materials is limited to one program in the Dual Enrollment Academy Program. Visit [www.wctc.edu/dual-enroll](http://www.wctc.edu/dual-enroll) for more information.

### Dual Enrollment Academy Program Areas

- Automation Systems (Robotics)
- Building Construction Trades
- Building Construction Trades - Electrical Apprenticeship Emphasis
- Criminal Justice Studies
- Early Childhood Education Preschool (Registry Credential)
- Firefighter/EMT
- IT Systems Specialist
- Pre-Nursing
- Tool and Die/CNC
- Welding/Fabrication

## Early College Credit Program (ECCP)

The Early College Credit Program (ECCP) allows a student in grades 9 - 12 to apply to enroll in a UW System institution, or a private, nonprofit institution of higher education in Wisconsin, to take one or more courses, for which the student may earn high school credit, post-secondary credit, or both

- Students can participate during fall, spring, and/or summer
- The total number of credits that a student can attain through the program is 18. The District will be responsible for costs unless comparable course offered in the district.
- Application deadline dates: March 1 (for summer and fall semesters) and Oct. 1 (for spring semester)
- Costs of courses are shared among the IHE, the school district, the state, and in some cases, the student's family
- Students cannot be concurrently enrolled in Start College Now and Early College Credit Program
- Students are encouraged to consider preparedness for these rigorous programs carefully. If a student drops or fails a course, the School District of Elmbrook will require reimbursement

for the cost of the credits.

- For more information regarding the Early College Credit Program, please visit <https://www.elmbrookschoools.org/programs-services/early-college-credit-program>

## Start College Now (SCN)

The Start College Now (SCN) program allows public high school juniors and seniors to take courses at a Wisconsin technical college for high school and technical college credit

- Students can participate during fall or spring
- The total number of credits that a student can attain through the program is 18. Approval of course requests beyond 18 credits may be made by the Assistant Superintendent of Teaching and Learning or designee; specific consideration will be made for students seeking admission for an associate's degree, technical diploma, or technical certificate
- The District will be responsible for costs unless comparable course offered in the district
- Students cannot be concurrently enrolled in Start College Now and Early College Credit Program.
- Application deadline dates: March 1 (for fall semester) and Oct. 1 (for spring semester)
- Costs of courses are shared among the IHE, the school district, the state, and in some cases, the student's family
- Students are encouraged to consider preparedness for these rigorous programs carefully. If a student drops or fails a course, the School District of Elmbrook will require reimbursement for the cost of the credits
- For more information regarding Start college Now, please visit <https://www.elmbrookschoools.org/programs-services/start-college-now>

## Part-Time Open Enrollment

Part Time Open Enrollment permits public high school students in grades 9-12 the opportunity to apply to attend a public school in a non-resident district for the purposes of taking up to two (2) courses at a time.

More information regarding Part Time Open Enrollment can be found at <https://www.elmbrookschoools.org/programs-services/part-time-open-enrollment>.

## At-Risk Services

At-Risk Services are required under Wisconsin State Statute 118.153(1)(a) for a student 16 years of age or older who meets the statutory requirements of "children at risk" of not graduating from high school. Such a student may attend a technical college in lieu of high school or may attend the technical college on a part-time basis. The student and his or her parent or guardian must agree, in writing, that the student will participate in the technical school program that leads to the student's high school graduation.

# CAREER-BASED LEARNING

The Young Professionals Scholars (YPS) program provides career-based learning experiences to Elmbrook high school students. The Career Based Learning opportunities take into consideration the student's passions, interests, skills, strengths, and aspirations/goals.

The opportunities provide for:

- Career exploration
- Career preparation and training
- Leadership and employability skill development
- Application of technical knowledge and skills in high demand fields
- Partnership with real business and industry partners

*\*NOTE: YPS is designated on the transcript of participating students. Additionally, the YPS designation is indicated on the BCHS/BEHS school profiles to inform institutions of higher education during the college admissions/application process.*



**LAUNCH** provides a unique learning experience (via actual courses and in areas such as project management, data science, entrepreneurship & sales, innovation / design thinking, and teamwork) where students connect academic and technical knowledge and skills to engage in real-world business problems, projects, needs and ideas. Students will have the opportunity to learn in courses taught by Elmbrook teachers and also be guided by business/industry professionals as they work collaboratively with peers to provide real solutions to business/industry projects/problems. More information is available at <http://launch.yourcapsnetwork.org/>.

## LAUNCH Strands

- Advanced Manufacturing Technologies
- Business Analytics
- Data Science & Intelligence for Careers
- Emerging Trends in IT
- Engineering Foundations
- Foundations of Body Systems and Disease
- Future Teachers
- Global Business
- Healthcare Solutions
- Hospitality Innovation
- Law and Public Policy
- Media Solutions
- Medicine & Healthcare
- Skilled Building Trades



**WCTC's Dual Enrollment Academy (DEA)** is designed to provide high school seniors with a head start in jobs in high-demand fields while providing them an opportunity to earn college credits – prior to high school graduation. The initiative awards participants with a WCTC diploma (upon successful completion) along with high school credits. Students spend the majority of their school day, both fall and spring semesters of their senior year, at WCTC participating in DEA. Students are encouraged to consider preparedness for these rigorous programs carefully. If a student drops or fails a course, the School District of Elmbrook will require reimbursement for the cost of the credits. Additional information is available at <https://www.wctc.edu/dual-enroll>.

## Dual Enrollment Academy Program Areas

- Automation Systems (Robotics)
- Building Construction Trades
- Building Construction Trades - Electrical Apprenticeship Emphasis
- Criminal Justice Studies
- Early Childhood Education Preschool (Registry Credential)
- Firefighter/EMT
- IT Systems Specialist
- Pre-Nursing
- Tool and Die/CNC
- Welding/Fabrication

## WI Youth Apprenticeship Program (YA)

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience. Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County.

To participate in the YA program, you must be:

- In your junior or senior year of high school (you may begin your apprenticeship as early as the summer before junior year)
- Likely to graduate at the end of your senior year
- Have participated in career exploration, guidance and/or education activities which allow you to make an informed choice
- Interested in hands-on, career-based learning

### Youth Apprenticeship Program Areas

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Art, A/V Technology & Communications
- Finance
- Health Science
- Hospitality, Lodging & Tourism
- Information Technology
- Manufacturing
- Marketing
- Science, Technology, Engineering & Mathematics (STEM)
- Transportation, Distribution & Logistics

Additional information can be found at <https://www.wctc.edu/academics/programs-courses/high-school-dual-credit/youth-apprenticeships.php>.

## State Certified Cooperative Education Program

Wisconsin's State-Certified Cooperative Education Programs are quality work-based learning options designed in partnership with business, industry and labor representatives, and educators around the integration of school-based and work-based learning and appropriate career development experiences. The program provides paid work experience for junior or senior high school students as part of their overall academic and career plan.

Students completing the certified co-op certification will be issued a state-endorsed certificate from the State

Superintendent of Public Instruction, which represents proof of completion. This certificate may also be endorsed by supporting industry and education organizations thus enhancing a student's future workplace portfolio.

Completion Requirements:

- Student checklist of skills
- Two semesters of related instruction integrating employability skills
- Paid work experience of a minimum 480 hours total
- Successful completion (proficiency rating of 3 or 2) of at least 90 percent of competencies outlined on the application student portfolio checklist

### Co-Op Career Field Areas

- Advanced Marketing
- Business
- E-Commerce
- Employability Skills
- Entrepreneurship
- Family Services
- Finance
- Food Service
- Information Technology
- Marketing
- Retail Management
- Sports and Entertainment
- Youth Leadership

Also available:

Youth Leadership Certificate (90 hours- no paid wages required)

Employability Skills Certificate (90 hours- paid wages required)

## Career and Employment Opportunities

Learn career and life skills while you earn! Students can engage in this personalized learning, seminar course to further support the development of professional knowledge and skills which can then be applied to real world work experiences.

## Internship

An internship (paid or unpaid) can be secured by the student and can afford him/her with opportunities to fast forward into a possible future and fully immerse him/herself into a professional culture, experience and solve real world problems, observe problem solving strategies used by employees, collaborate with employees, use industry standard tools, and be mentored throughout the process. The internship helps one develop a deeper appreciation of the business's intricacies and how the parts fit together to order to truly deliver value to customers. An internship is a shining example of how business, community, and public education partner to create personalized, relevant learning experiences that authentically prepare the workforce of tomorrow.

## **Mentorship (Job Shadow/Observation)**

Career exploration opportunity for students that occurs through planned on- the-job visitations in a student selected career field. Students will connect with an industry professional or if needed, be matched on an individual basis with an adult/professional mentor working in the career interest area. An individual plan, developed by the student and mentor/supervisor, helps structure and guide the experience. The job shadow experience requires 40 hours in a workplace setting (single or multiple) during the school day and/or outside of the school day. The job shadow can occur over a summer and/or (typically) one or two terms and will be unpaid. Consider this opportunity if you are a junior or senior and wondering about a particular career field.

## **Global Education Achievement Certificate (GEAC)**

Students graduating from high school may be awarded the distinction of Wisconsin Global Scholar if they have completed the following requirements:

- Four (4) credits in one world language, OR pass the ACTFL (AAPPL) proficiency exam at the intermediate high level.
- Four (4) credits in courses with global content. One of those credits may be one year of a second world language.
- Reflections on eight books (fiction or non-fiction) with global content. Alternately, up to four reflections may be on art, music, or film.
- Participation in school wide global activities including a minimum of twenty (20) hours of global service learning.



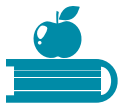
# CAREER CLUSTERS & PROGRAMS OF STUDY

This section of the course offerings guide provides students and families with valuable resources as they reflect upon potential career areas they may wish to consider pursuing and develop an academic plan that will support those aspirations.

The following pages outline 16 potential career clusters. Each career cluster provides a variety of career pathways students and families may want to explore. As students identify career clusters that may be of interest, potential courses and other experiences that are aligned with and may be of interest are displayed within a related program of study.

## CAREER CLUSTERS:

-  Agriculture, Food & Natural Resources
-  Architecture & Construction
-  Arts, A/V Technology & Communications
-  Business Management & Administration
-  Education & Training
-  Finance
-  Government & Public Administration
-  Health Science
-  Hospitality & Tourism
-  Human Services
-  Information Technology
-  Law, Public Safety, Corrections & Security
-  Manufacturing
-  Marketing
-  Science, Technology, Engineering & Mathematics
-  Transportation, Distribution & Logistics



# AGRICULTURE, FOOD & NATURAL RESOURCES

This diverse Career Cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical, and educational services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Agribusiness Systems</b>				
<ul style="list-style-type: none"> <li>Farm and Ranch Workers</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture Contact Provider</li> </ul>	<ul style="list-style-type: none"> <li>Agribusiness Management</li> <li>Agribusiness Operations</li> <li>Agriculture</li> <li>Farm and Ranch Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Economics</li> <li>Agribusiness</li> <li>Agricultural Education</li> <li>Hospitality, Restaurant and Professional Golf Management</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Economics</li> <li>Agriculture Leadership Education</li> <li>Statistics</li> </ul>
<b>Animal Systems</b>				
<ul style="list-style-type: none"> <li>Animal Caretakers</li> <li>Feed Sales</li> </ul>	<ul style="list-style-type: none"> <li>Ag Dairy Technician</li> <li>Beef Quality Assurance Program</li> <li>Livestock Production</li> <li>Pork Quality Assurance Program</li> </ul>	<ul style="list-style-type: none"> <li>Animal Science</li> <li>Equine Industry Management</li> <li>Livestock Industry Management</li> <li>Swine Management</li> <li>Veterinary Technology</li> </ul>	<ul style="list-style-type: none"> <li>Animal Science</li> <li>Biochemistry</li> <li>Grazing Livestock</li> <li>Systems Veterinary</li> <li>Science Veterinary Technologist</li> </ul>	<ul style="list-style-type: none"> <li>Animal Science</li> <li>Biochemistry</li> <li>Integrative Biomedical Sciences</li> <li>Veterinary Medicine</li> </ul>
<b>Environmental Service Systems</b>				
<ul style="list-style-type: none"> <li>Refuse and Recyclable Material Collection</li> </ul>		<ul style="list-style-type: none"> <li>Environmental Science</li> <li>Laboratory Science Technology</li> </ul>	<ul style="list-style-type: none"> <li>Aquatic Ecology</li> <li>Conservation</li> <li>Biology</li> <li>Environmental Soil Science</li> <li>Environmental Studies Habitat Management</li> </ul>	<ul style="list-style-type: none"> <li>Entomology</li> <li>Natural Resource Sciences</li> </ul>
<b>Food Products &amp; Processing Systems</b>				
<ul style="list-style-type: none"> <li>Butchers and Meat Cutters</li> <li>Meat Processing</li> <li>Slaughter and Meat Packer</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture Dairy Technician</li> <li>Commercial Plant</li> <li>Production Food</li> <li>Handlers Permit</li> <li>Quality Control</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Diversified Agriculture</li> <li>Dietary Management</li> <li>Food Science and Technology</li> <li>Quality Control</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Animal Science</li> <li>Food Science and Technology</li> <li>Hospitality, Restaurant and Tourism Management</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Animal Science (Meat Science Focus)</li> <li>Food Science and Technology</li> <li>Nutrition</li> </ul>
<b>Natural Resource Systems</b>				
		<ul style="list-style-type: none"> <li>Natural Resources</li> <li>Systems Soil and Water Conservation</li> <li>Wildlife Management</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Soil Sciences</li> <li>Environmental Studies &amp; Economics</li> <li>Fisheries and Wildlife</li> <li>Natural Resources and Water Science</li> </ul>	<ul style="list-style-type: none"> <li>Horticulture and Forestry Natural Resource Sciences</li> </ul>
<b>Plant Systems</b>				
<ul style="list-style-type: none"> <li>Nursery and Greenhouse Workers</li> <li>Seed Sales</li> <li>Tree Trimmers and Pruners</li> </ul>	<ul style="list-style-type: none"> <li>Commercial Horticulture</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy Commercial</li> <li>Horticulture Crop Production</li> <li>Forestry</li> <li>Sport Turf Technology</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Biochemistry</li> <li>Diversified Agricultural Studies</li> <li>Horticulture</li> <li>Plant Protection Sciences</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture</li> <li>Agronomy</li> <li>Biochemistry</li> <li>Entomology</li> <li>Horticulture and Forestry</li> </ul>
<b>Power, Structural &amp; Technical Systems</b>				
<ul style="list-style-type: none"> <li>Electrician Apprenticeship</li> <li>Plumbing Apprenticeship</li> <li>Welding Apprenticeship</li> </ul>	<ul style="list-style-type: none"> <li>Parts Distribution and Management</li> <li>Parts/Sales and Management</li> </ul>	<ul style="list-style-type: none"> <li>Agritechnology</li> <li>Farm Mechanics</li> <li>Irrigation Technology</li> <li>John Deere Ag Technician</li> <li>Mechanized Agriculture</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Operations</li> <li>Mechanized Marketing</li> <li>Mechanized Science</li> <li>Mechanized Systems Management</li> <li>Processing Operations</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural and Biological Systems</li> <li>Engineering</li> <li>Mechanized Systems Management</li> </ul>





# ARCHITECTURE & CONSTRUCTION

This diverse Career Cluster prepares learners for careers in designing, planning, managing, building, and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations, and repairs.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Design/Pre-Construction</b>				
<ul style="list-style-type: none"> <li>• Construction Laborer *◇</li> <li>• Pre-Apprentice</li> <li>• Supplier Sales</li> <li>• Carpenter Helper *</li> <li>• Painter◇</li> <li>• Roofer◇</li> </ul> Salary Range: \$20,900-\$74,700	<ul style="list-style-type: none"> <li>• Appliance Technician *</li> <li>• Landscape Technician</li> <li>• HVAC Service Technician *◇</li> <li>• Retail/Design Consultant</li> </ul> Salary Range: \$16,900-\$89,000	<ul style="list-style-type: none"> <li>• Concrete Finisher *</li> <li>• Electrician◇</li> <li>• Plumber *◇</li> <li>• Steamfitter *◇</li> <li>• Boilermaker◇</li> <li>• Iron Worker◇</li> <li>• Carpenter *◇</li> <li>• Operating Engineer *◇</li> <li>• Sheet Metal Worker◇</li> <li>• Pipefitter *</li> <li>• Crew Leader/Foreman *</li> <li>• Superintendent *</li> </ul> Salary Range: \$19,200-\$152,000	<ul style="list-style-type: none"> <li>• Drafting Design Technician</li> <li>• Surveyor</li> <li>• Interior Designer◇</li> <li>• Landscaper◇</li> </ul> Salary Range: \$19,200-\$78,600	<ul style="list-style-type: none"> <li>• Architect◇</li> <li>• Civil Engineer◇</li> <li>• Landscape Architect◇</li> </ul> Salary Range: \$29,700-\$111,100
<b>General Construction Skilled Trades</b>				
<ul style="list-style-type: none"> <li>• Pre-Apprentice</li> <li>• Supplier Sales</li> <li>• Carpenter Helper *</li> <li>• Painter◇</li> <li>• Roofer◇</li> </ul> Salary Range: \$20,900-\$74,700	<ul style="list-style-type: none"> <li>• Cabinet Maker</li> <li>• Bricklayer *◇</li> <li>• Boiler Operator</li> <li>• Rough Carpenter *</li> <li>• Tile Setter *</li> </ul> Salary Range: \$24,200-\$82,400	<ul style="list-style-type: none"> <li>• Electrician◇</li> <li>• Plumber *◇</li> <li>• Steamfitter *◇</li> <li>• Boilermaker◇</li> <li>• Iron Worker◇</li> <li>• Carpenter *◇</li> <li>• Operating Engineer *◇</li> <li>• Sheet Metal Worker◇</li> <li>• Pipefitter *</li> <li>• Crew Leader/Foreman *</li> <li>• Superintendent *</li> </ul> Salary Range: \$19,200-\$152,000	<ul style="list-style-type: none"> <li>• Project Manager *</li> <li>• Assistant Construction Manager *</li> <li>• Cost Estimator *</li> </ul> Salary Range: \$37,000-\$169,000	<ul style="list-style-type: none"> <li>• Safety Manager</li> <li>• Project Engineer *</li> <li>• Construction Manager *◇</li> <li>• Company Owner</li> </ul> Salary Range: \$28,500-\$336,000

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Building Construction I</li> <li>• Architecture</li> </ul>	<p>Students should take ALL of these options:</p> <ul style="list-style-type: none"> <li>• Building Construction II</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Computer Aided Design (CAD)*</li> <li>• LAUNCH Skilled Building Trades Strand                             <ul style="list-style-type: none"> <li>• Light Building Construction</li> <li>• Math for Skilled Trade</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- 3D Fabrication Society

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- |  |  |
|--|--|
| <b>A TE:</b>   | <b>Visual Arts:</b>  |
| <ul style="list-style-type: none"> <li>• Wood Design &amp; Production I</li> <li>• Wood Design &amp; Production II</li> <li>• Woods Seminar</li> </ul> | <ul style="list-style-type: none"> <li>• Drawing I</li> <li>• Drawing II</li> <li>• Drawing III</li> </ul> |

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

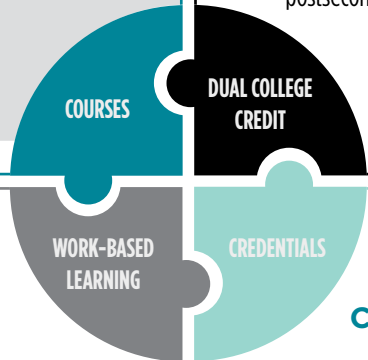
- Computer Aided Design (CAD) - WCTC credit available if PLTW IED is also completed
- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

### WORK-BASED LEARNING OPTIONS

- Employability Skills
- State Skill Standards Co-Op-Construction
- Youth Apprenticeship- Architecture and Construction
- Local Work-based Learning Programs that meet state quality requirements

### INDUSTRY-RECOGNIZED CREDENTIALS

- North American Technician Excellence (NATE): HVAC Support Technician
- Multi-Craft Core Curriculum
- National Center for Construction Education & Research (NCCER)
- Career Connections/Level 3
- Woodwork Career Alliance: Sawblade





# ARTS, A/V TECHNOLOGY & COMMUNICATIONS

This cluster offers two different avenues of concentration. Careers in the Performing Arts, Visual Arts, or certain aspects of Journalism, Broadcasting, and Film require creative talents. Careers in Audio-Video Communications Technology, Telecommunications, or Printing Technology require strong backgrounds in computer and electronic-based technology, and a solid foundation in math and science. Communicating effectively in both oral and written form is essential for all careers in the cluster. In addition, the creative aspects of this cluster are rapidly merging with the technological, offering exciting and challenging careers.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Audio/Video (AV) Technology &amp; Film</b>				
	<ul style="list-style-type: none"> <li>• Audio and Recording Technology</li> <li>• Video Production</li> </ul>	<ul style="list-style-type: none"> <li>• Audio and Recording Technology</li> <li>• Electronics</li> <li>• Industrial Video</li> <li>• Production Film/Video Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Design and Visual Communications</li> <li>• Electrical Engineering</li> <li>• Film Studies and Production</li> <li>• Mechanical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Electronics Engineering</li> </ul>
<b>Journalism and Broadcasting</b>				
	<ul style="list-style-type: none"> <li>• Certification by the Society of Broadcast Engineers Radio</li> <li>• Announcing</li> <li>• Radio Production</li> </ul>	<ul style="list-style-type: none"> <li>• Audio &amp; Recording</li> <li>• Technology Broadcasting - Radio/TV Journalism</li> <li>• Mass Media/Communications</li> <li>• Media Arts</li> </ul>	<ul style="list-style-type: none"> <li>• Advertising</li> <li>• Broadcasting</li> <li>• Journalism</li> <li>• News Editorial</li> <li>• Visual Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Journalism</li> </ul>
<b>Performing Arts</b>				
<ul style="list-style-type: none"> <li>• Movie and Stage Grip</li> <li>• Usher and Ticket Taker</li> <li>• Movie Projectionist</li> </ul>	<ul style="list-style-type: none"> <li>• Musical Instrument Repair and Tuning</li> <li>• Sound Engineering</li> <li>• Theater Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Music</li> <li>• Musical Instrument Repair and Tuning</li> <li>• Sound Engineering</li> <li>• Theater Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Arts</li> <li>• Administration</li> <li>• Dance</li> <li>• Music</li> <li>• Stage Management</li> <li>• Theater Arts</li> </ul>	<ul style="list-style-type: none"> <li>• Music</li> <li>• Musical Arts</li> </ul>
<b>Printing Technology</b>				
<ul style="list-style-type: none"> <li>• Bookbinder and Bindery Worker</li> <li>• Graphic and Printing</li> <li>• Equipment Operator</li> </ul>	<ul style="list-style-type: none"> <li>• Desktop Publishing</li> <li>• Digital Publishing</li> <li>• Graphic Communications</li> <li>• Offset Publishing</li> <li>• Web Page Design</li> </ul>	<ul style="list-style-type: none"> <li>• Electronic Imaging &amp; Graphics</li> <li>• Graphic Design</li> <li>• Media Arts</li> <li>• Printing Technology</li> <li>• Visual Publications</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Graphics</li> <li>• Graphic Design</li> <li>• Industrial Design</li> <li>• Printing Management</li> <li>• Visual Communication &amp; Design</li> </ul>	
<b>Telecommunications</b>				
	<ul style="list-style-type: none"> <li>• Electronics Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Computer and Information Sciences</li> <li>• Computer Systems Analysis</li> <li>• Electronics Technology in Telecommunications</li> <li>• Information Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Networking and Telecommunications</li> <li>• Electronics Engineering</li> <li>• Operations Technology</li> <li>• Telecommunications</li> </ul>	<ul style="list-style-type: none"> <li>• Electronics Engineering</li> <li>• Information Technology</li> <li>• Telecommunications Engineering</li> </ul>
<b>Visual Arts</b>				
<ul style="list-style-type: none"> <li>• Photograph Processing Worker</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial Art</li> <li>• Digital Publishing</li> <li>• Graphic Art</li> <li>• Multimedia Photography</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial Art</li> <li>• Graphic Design</li> <li>• Interior Design</li> <li>• Media Arts</li> <li>• Visual Publications</li> </ul>	<ul style="list-style-type: none"> <li>• Art History</li> <li>• Fashion Design</li> <li>• Graphic Design</li> <li>• Interior Design</li> <li>• Studio Arts</li> <li>• Visual Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Art History</li> <li>• Studio Arts</li> </ul>

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>Digital Imaging I</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Digital Imaging II</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Graphic Design Academy                             <ul style="list-style-type: none"> <li>Design, Drawing &amp; Color Theory*</li> <li>Digital Illustration*</li> <li>Image Editing/Photoshop*</li> <li>Page Layout/InDesign*</li> </ul> </li> <li>LAUNCH Media Solutions Strand                             <ul style="list-style-type: none"> <li>English 11/Writing for Research</li> <li>Digital Imaging Seminar</li> <li>Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Anime Club
- Art Club
- Game Development Club
- Graphics Club
- Newspaper
- Yearbook
- Women in Engineering

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- Video Production
- Yearbook
- Drawing I, II and III

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

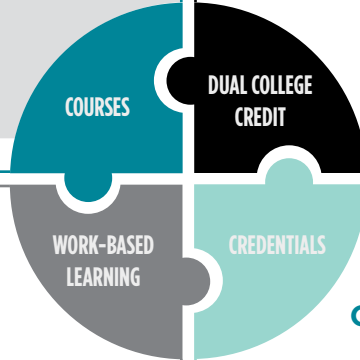
- Design, Drawing & Color Theory (WCTC)
- Image Editing/Photoshop (WCTC)
- Page Layout/InDesign (WCTC)

### WORK-BASED LEARNING OPTIONS

- LAUNCH (Work-based mentorship and project-based learning)
  - Media Solutions (Advanced Level Coursework, Year 3 or 4)
- Mentorship
- Graphic Design and Press Youth Apprenticeship

### INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate:
  - Illustrator
  - InDesign
  - Photoshop
  - Premiere Pro
- Digital Production/DTP Technical Certificate



## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY of these options:</p> <ul style="list-style-type: none"> <li>• Concert Band</li> <li>• Concert Choir or Treble Choir</li> <li>• Symphony Orchestra or Chamber Orchestra</li> <li>• Digital Music for Musicians and Non-Musicians</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Concert Band, Symphonic Band or Wind Ensemble</li> <li>• Concert Choir, Chamber Choir or Women's Ensemble</li> <li>• Symphony Orchestra</li> <li>• Digital Music for Musicians and Non-Musicians</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Concert Band, Symphonic Band or Wind Ensemble</li> <li>• Concert Choir, Chamber Choir or Women's Ensemble</li> <li>• Symphony Orchestra</li> <li>• Digital Music for Musicians and Non-Musicians</li> <li>• Exploring Music Theory and Composition</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Forensics
- Theater Department/Club
- Band
- Choir
- Drama/Musical
- Orchestra
- Friends of the BCHS Band

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- Band/Choir/Orchestra courses

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

OPPORTUNITIES 

## WORK-BASED LEARNING OPTIONS

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS



# BUSINESS MANAGEMENT & ADMINISTRATION

This cluster includes those career opportunities that are dedicated to performing administrative managerial processes vital to the success and ongoing existence of a business organization, regardless of the sector or industry in which the business resides or the product/service it provides.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Administrative Services</b>				
<ul style="list-style-type: none"> <li>Administrative Assistant</li> <li>Computer Operator</li> <li>Customer Service</li> <li>Data Entry Specialist</li> <li>Microsoft Office</li> </ul>	<ul style="list-style-type: none"> <li>Court Reporting</li> <li>Information Processing Legal or Medical</li> <li>Information Technology</li> <li>Office Administration</li> </ul>	<ul style="list-style-type: none"> <li>Court Reporting</li> <li>Information Processing Legal or Medical</li> <li>Information Technology</li> <li>Office Management</li> </ul>	<ul style="list-style-type: none"> <li>Information Systems</li> <li>Information Technology Management</li> </ul>	
<b>Business Information Management</b>				
	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Technology</li> <li>Office Technology</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Technology</li> <li>Office Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Systems</li> <li>Information Technology Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Technology</li> </ul>
<b>Human Resources Management</b>				
<ul style="list-style-type: none"> <li>Human Resources Clerk</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>Human Resources Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>
<b>Management</b>				
	<ul style="list-style-type: none"> <li>Certified Government</li> <li>Auditing Professional</li> <li>Certified Professional Consultant</li> </ul>	<ul style="list-style-type: none"> <li>Agribusiness</li> <li>Business Administration</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Entrepreneurship</li> <li>Marketing</li> <li>Finance</li> <li>International Business</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration and Management</li> </ul>
<b>Operations Management</b>				
	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Retail Management</li> </ul>	<ul style="list-style-type: none"> <li>Agribusiness</li> <li>Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Marketing</li> <li>Operations Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Accounting</li> <li>• Introduction to Business</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Entrepreneurship</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> <li>• Business &amp; Society*</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Black Student Union
- Class Council
- Communication & Networking for Future Leaders
- Culture Club
- Distinguished Young Women
- Economics Club
- Forensics
- French Club
- Hmong American Student Association (HASA)
- HNC Club
- Interact Club
- Key Club
- Latin Club
- Model Unite Nations
- Muslim Student Club
- Muslim Student Organization
- SAFE Club
- She's the First
- Sociedad Honoraria Hispanica
- Student Council
- UNICEF

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- World Language
- Business Law
- Business Management
- Current Issues
- AP World History\*

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

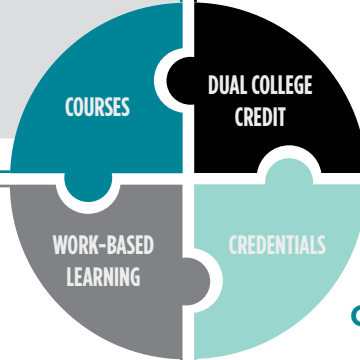
- Business & Society (UWM)

### WORK-BASED LEARNING OPTIONS

- Marketing Co-Op
- Entrepreneur Co-Op
- Finance Co-Op
- Business Co-Op
- Information Technology Co-Op

### INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist Certification





# EDUCATION & TRAINING

This cluster prepares for careers in providing, supporting, and managing the education and training of millions of learners. It encompasses ages from preschool through adults; varies from informal to formal settings; and provides for the skills necessary for initial entrance as well as updating skills to advance within the job or train for a different one.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Administration &amp; Administrative Support</b>				
				<ul style="list-style-type: none"> <li>• Educational Administration</li> <li>• Educational Studies</li> <li>• Business Administration</li> <li>• Administration and Supervision</li> </ul>
<b>Professional Support Services</b>				
	<ul style="list-style-type: none"> <li>• Personal Trainer</li> <li>• Certified Strength and Conditioning Specialist (SCS)</li> </ul>	<ul style="list-style-type: none"> <li>• Library Technical Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Speech-Language Pathology</li> <li>• Social Work</li> <li>• Information Science and Technology</li> <li>• Special Education and Communication Disorders</li> </ul>	<ul style="list-style-type: none"> <li>• Educational Psychology</li> <li>• Human Sciences</li> <li>• Instructional Technology</li> <li>• School Psychology</li> <li>• School Counseling</li> <li>• Social Work</li> </ul>
<b>Teaching/Training</b>				
<ul style="list-style-type: none"> <li>• Child Care Worker</li> <li>• Coach of Community-based Sport Leagues</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Assistant Coaching</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Sign Language Interpreting</li> <li>• Education Paraprofessional</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Elementary Education</li> <li>• Middle Level Education</li> <li>• Secondary Education</li> <li>• Special Education</li> <li>• Athletic Trainer</li> </ul>	<ul style="list-style-type: none"> <li>• Curriculum and Instruction Education</li> <li>• Teaching, Curriculum, and Learning</li> <li>• Leadership Education and Leadership Studies</li> </ul>



## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>Public Speaking* or Speech Communication</li> <li>Psychology</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Modern Society</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>LAUNCH Future Teachers Strand                             <ul style="list-style-type: none"> <li>AP Psychology*</li> <li>Educational Psychology*</li> <li>Introduction to Children's and Young Adult Literature*</li> <li>Educational Inquiry 1: Critical Perspectives on Education*</li> <li>Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Best Buddies
- Black Student Union
- Blue Crew
- Class Council
- Culture Club
- Distinguished Young Women
- Forensics
- Hmong American Student Assoc. (HASA)
- Interact Club
- Key Club
- LEAP
- Link Crew
- Muslim Student Club
- Muslim Student Organization
- PRISM Club
- Psychology Club
- Red Cross Club
- SAFE Club
- Student Council

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

### AP Capstone:

- AP Seminar\*
- AP Research\*

### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*

### Health/PE:

- Exercise Science
- Personal Fitness & Wellness
- Ultimate Strength & Conditioning

### English:

- Writing for Publication
- Public Speaking\*
- Writing for College\*

### Social Studies:

- Current Issues

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

OPPORTUNITIES 

- AP Psychology
- Educational Psychology (MU)
- Introduction to Children's and Young Adult Literature (UWM)
- Educational Inquiry 1: Critical Perspectives on Education (MU)

## WORK-BASED LEARNING OPTIONS

- Assistant Child Care Teacher (ACCT) Co-op (requires coursework at WCTC)
- Child Care Teacher Co-op (requires coursework at WCTC)

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Assistant Child Care Teacher (ACCT) - WCTC



# FINANCE

This Cluster includes career opportunities that relate to making strategic decisions to obtain, save, protect, and grow the financial assets of businesses and individuals. Individuals working in finance must have strong computation, analytical, and interpersonal skills.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Accounting &amp; Business Finance</b>				
<ul style="list-style-type: none"> <li>• Tax Preparer</li> <li>• Statement Representative</li> <li>• Accounts Payable/Receivable Associate</li> <li>• Bookkeeper ◇</li> <li>• Bill and Account Collector ◇</li> </ul> Salary Range: \$22,900-\$101,800	<ul style="list-style-type: none"> <li>• Inventory Control Associate</li> <li>• Payroll Associate</li> </ul> Salary Range: \$25,800-\$60,7000	<ul style="list-style-type: none"> <li>• Financial Services Professional</li> </ul> Salary Range: \$34,900-\$199,800	<ul style="list-style-type: none"> <li>• Information Securities Analyst</li> <li>• Accounting Specialist</li> <li>• Budget Analyst</li> <li>• Contract Specialist</li> <li>• Financial Analyst *</li> </ul> Salary Range: \$24,200-\$99,700	<ul style="list-style-type: none"> <li>• Accountant *</li> <li>• Auditor</li> <li>• Financial Manager *</li> <li>• Forensic Accountant</li> <li>• Credit Analyst</li> </ul> Salary Range: \$44,500-\$246,800
<b>Securities/Investments &amp; Banking Services</b>				
<ul style="list-style-type: none"> <li>• Bank Teller * ◇</li> <li>• New Accounts Representative *</li> <li>• Loan Processor *</li> </ul> Salary Range: \$21,300-\$55,7000	<ul style="list-style-type: none"> <li>• Loan Counselor</li> <li>• Financial Planning Assistant</li> </ul> Salary Range: \$31,600-\$129,100	<ul style="list-style-type: none"> <li>• Financial Services Professional</li> </ul> Salary Range: \$34,900-\$199,800	<ul style="list-style-type: none"> <li>• Account Manager * ◇</li> <li>• Personal Banker</li> <li>• Loan Officer ◇</li> <li>• Financing Specialist</li> </ul> Salary Range: \$31,300-\$246,800	<ul style="list-style-type: none"> <li>• Bank Manager * ◇</li> <li>• Investment Banker ◇</li> <li>• Mortgage Broker ◇</li> <li>• Research Analyst (Financial) ◇</li> <li>• Money Manager ◇</li> <li>• Stock Trader ◇</li> </ul> Salary Range: \$30,400-\$246,800
<b>Insurance</b>				
<ul style="list-style-type: none"> <li>• Insurance Claim Representative</li> </ul> Salary Range: \$26,600-\$57,000	<ul style="list-style-type: none"> <li>• Customer Service/Account Management *</li> <li>• Claims Assistant/Adjuster</li> <li>• Underwriting Assistant</li> <li>• Insurance Sales</li> </ul> Salary Range: \$23,600-\$132,000	<ul style="list-style-type: none"> <li>• Financial Services Professional</li> </ul> Salary Range: \$34,900-\$199,800	<ul style="list-style-type: none"> <li>• Real Estate Assessor</li> <li>• Financial Service Representative</li> <li>• Insurance Agent</li> <li>• Insurance Underwriter</li> </ul> Salary Range: \$31,500-\$199,800	<ul style="list-style-type: none"> <li>• Actuary ◇</li> <li>• Personal Financial Advisor</li> <li>• Risk Management Specialist</li> <li>• Insurance Claims Adjusters ◇</li> </ul> Salary Range: \$49,900-\$199,800

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

#### YEAR 1

Students should consider taking ALL options:

- Introduction to Business
- Personal Finance

#### YEAR 2

Students should take ANY one of these options:

- Introduction to Accounting
- Economics

#### YEARS 3 & 4

Students should take ANY one of these options:

- College Accounting
- Business Leadership
- LAUNCH Business Analytics Strand
  - AP Statistics\*
  - Business Strategy
  - Mentorship

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- Entrepreneurship
- Business Law
- Business Management
- Financial Management & Investing\*
- Software Applications

#### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*
- AP Statistics\*

#### Social Studies:

- AP Micro Economics
- AP Macro Economics

#### World Language:

- Any World Language

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

OPPORTUNITIES

- Business & Society (UWM)
- AP Statistics
- Precalculus (UW-O CAPP)
- Statistics & Data Analysis (UW-O CAPP)
- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

### WORK-BASED LEARNING OPTIONS

- Finance Co-Op
- Accounting Services Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- IC3 (Internet Core Competency Certification)
- Microsoft Office Specialist (MOS) & Microsoft Technology Associate (MTA) through Microsoft or Certiport
- A\*S\*K - ANY Business or Marketing Certificate
- Entrepreneurship and Small Business Certification
- Quickbooks Certified User
- National Bookkeepers Association Tax Certification



# Banking Services

## PROGRAM OF STUDY

How do I get there?

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

#### YEAR 1

Students should consider taking ALL options:

- Introduction to Business
- Personal Finance

#### YEAR 2

Students should take ANY one of these options:

- Personal Finance
- Economics

#### YEARS 3 & 4

Students should take ANY one of these options:

- Financial Management & Investing\*
- Business Leadership
- LAUNCH Business Analytics Strand
  - AP Statistics\*
  - Business Strategy
  - Mentorship

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- College Accounting
- Entrepreneurship
- Business Law
- Business Management
- Financial Management & Investing\*
- Software Applications

#### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*
- AP Statistics\*

#### Social Studies:

- AP Micro Economics
- AP Macro Economics

#### World Language:

- Any World Language

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Statistics
- Precalculus (CAPP)
- Statistics & Data Analysis (CAPP)

### WORK-BASED LEARNING OPTIONS

- Banking Basics Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

#### YEAR 1

Students should consider taking ALL options:

- Introduction to Business
- Personal Finance

#### YEAR 2

Students should take ANY one of these options:

- Economics
- Financial Management & Investing\*

#### YEARS 3 & 4

Students should take ANY one of these options:

- Economics
- Financial Management & Investing\*
- LAUNCH Business Analytics Strand
  - AP Statistics\*
  - Business Strategy
  - Mentorship

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- College Accounting
- Entrepreneurship
- Business Law
- Business Management
- Financial Management & Investing\*
- Software Applications

#### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*
- AP Statistics\*

#### Social Studies:

- AP Micro Economics
- AP Macro Economics

#### World Language:

- Any World Language

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Statistics
- Financial Management & Investing (CAPP)
  - Precalculus (CAPP)
  - Statistics & Data Analysis (CAPP)

### WORK-BASED LEARNING OPTIONS

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

#### YEAR 1

Students should consider taking ALL options:

- Introduction to Business
- Personal Finance

#### YEAR 2

Students should consider taking ALL of these options:

- Economics
- Financial Management & Investing\*

#### YEARS 3 & 4

Students should take ANY one of these options:

- Business Leadership
- LAUNCH Business Analytics Strand
  - AP Statistics\*
  - Business Strategy
  - Mentorship

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- College Accounting
- Entrepreneurship
- Business Law
- Business Management
- Financial Management & Investing\*
- Software Applications

#### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*
- AP Statistics\*

#### Social Studies:

- AP Micro Economics
- AP Macro Economics

#### World Language:

- Any World Language

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Statistics
- Financial Management & Investing (CAPP)
  - Precalculus (CAPP)
  - Statistics & Data Analysis (CAPP)

### WORK-BASED LEARNING OPTIONS

- Insurance Services Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Personal Finance</li> </ul>	<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Economics</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• AP Macro Economics</li> <li>• AP Micro Economics</li> <li>• Business Leadership</li> <li>• LAUNCH Business Analytics Strand               <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• College Accounting</li> <li>• Entrepreneurship</li> <li>• Business Law</li> <li>• Business Management</li> <li>• Financial Management &amp; Investing*</li> <li>• Software Applications</li> </ul>	<p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Precalculus*</li> <li>• Statistics*</li> <li>• Data Analysis*</li> <li>• AP Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• AP Micro Economics</li> <li>• AP Macro Economics</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Statistics
- AP Micro/Macro Economics
- Financial Management & Investing (UWO CAPP)
- Precalculus (UWO CAPP)
- Statistics & Data Analysis (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS



# GOVERNMENT & PUBLIC ADMINISTRATION

Jobs in this cluster involve planning, managing, and providing government, administrative, and regulatory services at the federal, state, and local levels. While nearly every occupation can be found within government, this cluster focuses on only six concentrations.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Foreign Service</b>				
			<ul style="list-style-type: none"> <li>• International Studies</li> <li>• Sociology</li> <li>• Geography and History</li> <li>• International Business</li> <li>• Economics Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Survey, Research and Methodology</li> <li>• Sociology</li> <li>• Economics</li> <li>• Statistics</li> </ul>
<b>Governance</b>				
			<ul style="list-style-type: none"> <li>• Political Science</li> <li>• Geography</li> <li>• Economic Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Political Science</li> <li>• Geography</li> <li>• Economic Statistics</li> <li>• Research and Methodology</li> </ul>
<b>National Security</b>				
			<ul style="list-style-type: none"> <li>• Military Science</li> <li>• Psychology</li> <li>• Electrical or Computer Engineering</li> <li>• Foreign Language</li> </ul>	<ul style="list-style-type: none"> <li>• Survey, Research and Methodology</li> </ul>
<b>Planning</b>				
			<ul style="list-style-type: none"> <li>• Economics</li> <li>• Geography</li> <li>• Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Community and Regional Planning</li> <li>• Economics</li> <li>• Architecture</li> <li>• Geography</li> <li>• Survey, Research and Methodology</li> </ul>
<b>Public Management &amp; Administration</b>				
			<ul style="list-style-type: none"> <li>• Actuarial Science</li> <li>• Management</li> <li>• Business Administration</li> <li>• Economics</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Public Administration</li> <li>• Survey, Research and Methodology</li> <li>• Actuarial Science</li> <li>• Economics</li> <li>• Statistics</li> </ul>
<b>Regulation</b>				
			<ul style="list-style-type: none"> <li>• Food Science and Technology</li> <li>• International Business</li> <li>• Economics</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Survey, Research and Methodology</li> <li>• Food Science and Technology</li> <li>• Economics</li> <li>• Statistics</li> </ul>
<b>Revenue &amp; Taxation</b>				
			<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Economics</li> <li>• Finance</li> <li>• Actuarial Science</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Economics</li> <li>• Finance</li> <li>• Actuarial Science</li> <li>• Family Financial Planning</li> <li>• Research and Methodology</li> </ul>





# HEALTH SCIENCE

This cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, medevac units, sports arenas, space centers, or within the community.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Biotechnology Research &amp; Development</b>				
	<ul style="list-style-type: none"> <li>Quality Assurance Technician</li> <li>Quality Control Technician</li> </ul>	<ul style="list-style-type: none"> <li>Clinical Laboratory</li> <li>Medical Laboratory</li> <li>Technician (CLT)</li> <li>Technician (MLT)</li> </ul>	<ul style="list-style-type: none"> <li>Biochemistry</li> <li>Immunology</li> <li>Medical Technology</li> <li>Microbiology</li> <li>Neuroscience</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy</li> <li>Biochemistry</li> <li>Oncology Biology</li> <li>Virology</li> <li>Epidemiology</li> </ul>
<b>Diagnostic Services</b>				
<ul style="list-style-type: none"> <li>Please see detailed regional Patient Care Career Pathway on the following page</li> </ul>				
<b>Health Informatics</b>				
<ul style="list-style-type: none"> <li>Coding Experience</li> <li>Data Entry</li> <li>Community Service</li> </ul>	<ul style="list-style-type: none"> <li>Health Records</li> <li>Technology Medical</li> <li>Assisting Medical Librarian</li> <li>Medical Transcription</li> </ul>	<ul style="list-style-type: none"> <li>Health Information Technology</li> <li>Medical Coding</li> <li>Medical Office Services</li> </ul>	<ul style="list-style-type: none"> <li>Community Health</li> <li>Health Care Administration</li> <li>Health Education</li> </ul>	<ul style="list-style-type: none"> <li>Health Care Administration</li> <li>Library Science</li> <li>Nursing Administration</li> <li>Public Health</li> </ul>
<b>Support Services</b>				
<ul style="list-style-type: none"> <li>Central Services Assistant</li> <li>Dietary Manager</li> <li>Electrical/Electronic Equipment Repair</li> </ul>	<ul style="list-style-type: none"> <li>Dietary Management</li> <li>Electrical/Electronic Equipment Repair</li> <li>Medical Office Management</li> </ul>	<ul style="list-style-type: none"> <li>Dietary Management</li> <li>Medical Office Management</li> <li>Registered Dietetic Technician</li> </ul>	<ul style="list-style-type: none"> <li>Biomedical Technology</li> <li>Environmental Health &amp; Safety</li> <li>Prosthetic Therapies</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Health Sciences</li> <li>Industrial/Operations</li> <li>Engineering</li> <li>Public Health</li> </ul>
<b>Therapeutic Services</b>				
<ul style="list-style-type: none"> <li>Please see detailed regional Patient Care Career Pathway on the following page</li> </ul>				



**INTERACTIVE PDF**  
Click on each job title to learn more!

## PATIENT CARE Regional Career Pathway

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Therapeutic Services - Direct Care</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• Nursing Assistant *◇</li> </ul> Salary Range: \$24,400-\$38,700	<ul style="list-style-type: none"> <li>• Medical Assistant *◇</li> <li>• Pharmacy Technician *</li> </ul> Salary Range: \$29,700-\$46,800	<ul style="list-style-type: none"> <li>• Dental Hygienist</li> <li>• Paramedic *◇</li> <li>• Respiratory Therapist *◇</li> <li>• Surgical Technologist *◇</li> <li>• Anesthesia Technologist</li> </ul> Salary Range: \$21,900 - \$81,100	<ul style="list-style-type: none"> <li>• Physical Therapist ◇</li> <li>• Occupational Therapist ◇</li> <li>• Pharmacist ◇</li> <li>• Speech Language Pathologist ◇</li> <li>• Physician *◇</li> </ul> Salary Range: \$75,500-\$208,000+
<b>Therapeutic Services - Nursing</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• Nursing Assistant *◇</li> </ul> Salary Range: \$24,400-\$38,700		<ul style="list-style-type: none"> <li>• Registered Nurse (ADN) *◇</li> </ul> Salary Range: \$53,700-\$93,900	<ul style="list-style-type: none"> <li>• Registered Nurse (BSN) *◇</li> <li>• Clinical Nurse Specialist *◇</li> <li>• Nurse Anesthetist *◇</li> <li>• Nurse Practitioner *◇</li> <li>• Professor or Nurse Educator *</li> </ul> Salary Range: \$46,600-\$208,000+
<b>Therapeutic Services - Behavioral Health</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• Nursing Assistant *◇</li> </ul> Salary Range: \$24,400-\$38,700		<ul style="list-style-type: none"> <li>• Community and Social Service Specialist</li> </ul> Salary Range: \$22,100 - \$50,900	
<b>Diagnostic Services</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• EKG Technician</li> <li>• Ophthalmic Lab Technician ◇</li> <li>• Phlebotomist *◇</li> <li>• Sterile Processing Technician</li> </ul> Salary Range: \$26,800-\$72,000		<ul style="list-style-type: none"> <li>• Cardiovascular Technician ◇</li> <li>• Medical Laboratory Technician *</li> <li>• Radiologic Technologist *Salary Range: \$32,400-\$104,100</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic Medical Sonographer *◇</li> <li>• Clinical Laboratory Scientist *</li> <li>• Nuclear Medicine Technologist ◇</li> <li>• Radiologist ◇</li> </ul> Salary Range: \$32,420-\$208,000+

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>PLTW Human Body Systems</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>PLTW Medical Interventions</li> <li>Anatomy &amp; Physiology</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>LAUNCH Medicine &amp; Healthcare Strand                             <ul style="list-style-type: none"> <li>Culture of Healthcare*</li> <li>Medical Terminology*</li> <li>Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- HOSA
- Coaches Vs. Cancer Club
- HOPE Squad
- Psychology Club
- Red Cross Club
- RedGen Club
- Science National Honors Society
- Science Bowl
- Science Olympiad
- SMART Team

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Health/PE:</b></p> <ul style="list-style-type: none"> <li>Exercise Science</li> <li>Ultimate Strength &amp; Conditioning</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>Statistics*</li> <li>Data Analysis*</li> </ul>	<p><b>Science:</b></p> <ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>PLTW Principles of Biomedical Science</li> <li>PLTW Biomedical Innovation</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>Psychology</li> <li>Abnormal Psychology</li> <li>AP Psychology*</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

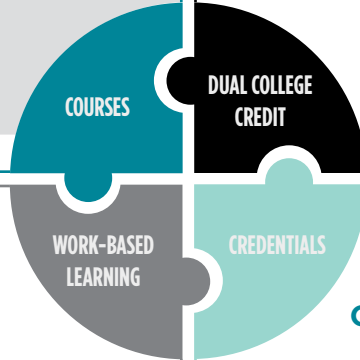
- Medical Terminology (WCTC)
- Culture of Healthcare (WCTC)
- Certified Nursing Assistant (Gateway)

## WORK-BASED LEARNING OPTIONS

- Nursing Assistant Youth Apprenticeship (Certification required)
- Dental Assistant (Certification required)
- Pharmacy Technician (Certification required)
- Medical Assistant Youth Apprenticeship (Certification required)
- Employability Skills
- Health Science Youth Apprenticeship
- Local Work-based Learning Programs that meet state quality requirements

## INDUSTRY-RECOGNIZED CREDENTIALS

- CNA-Certified Nursing Assistant
- Basic Life Support or Professional Rescuer CPR/AED and First Aid
- Medication Aide/Assistant
- Feeding Assistant
- Emergency Medical Responder
- Medical Assistant (AAMA, AMT, NHA)
- Pharmacy Technician
- Emergency Medical Technician
- Phlebotomy (AMT, NHA)
- Phlebotomy Technician
- IV Technician
- EKG Technician





# HOSPITALITY AND TOURISM

This Career Cluster prepares learners for careers in the management, marketing, and operations of restaurants and other food service, lodging, attractions, recreation events, and travel-related services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Lodging</b>				
<ul style="list-style-type: none"> <li>Bell Captain</li> <li>Guest Room Attendant</li> <li>Reservationist</li> </ul>	<ul style="list-style-type: none"> <li>Hotel Management</li> </ul>	<ul style="list-style-type: none"> <li>Hotel Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Lodging Management</li> <li>Sales and Marketing</li> </ul>	
<b>Recreation, Amusements and Attractions</b>				
<ul style="list-style-type: none"> <li>Museums/Zoos/Aquarium Docent</li> <li>Resort Instructor</li> <li>Theme Parks Retail Manager</li> </ul>			<ul style="list-style-type: none"> <li>Business Administration Management</li> <li>Recreation, Fitness, and Leisure Studies</li> <li>Sports &amp; Fitness Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>
<b>Restaurants &amp; Food and Beverage Services</b>				
<ul style="list-style-type: none"> <li>Cook</li> <li>Dishwasher</li> <li>Wait Staff</li> </ul>	<ul style="list-style-type: none"> <li>Culinary Arts and Management</li> <li>Dietary Management</li> <li>Food Service/Hospitality</li> <li>Food Service Management</li> </ul>		<ul style="list-style-type: none"> <li>Food Service &amp; Hospitality Management</li> <li>Restaurant and Food Service Administration</li> <li>Travel and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Restaurant/Food Service Administration</li> </ul>
<b>Travel &amp; Tourism</b>				
<ul style="list-style-type: none"> <li>Event Planner</li> <li>Ticket Agent</li> <li>Tour Guide</li> <li>Travel Agent</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Travel and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Sales and Marketing</li> <li>Travel and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Marketing</li> <li>Operations Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>



# HUMAN SERVICES

This Cluster prepares students for careers that improve quality of life and promotes safe, healthy communities. Workers in human services better our lives by tending to our psychological, social, and physical needs. Social service organizations that help individuals with basic needs, such as housing, health, and nutrition constitutes a large component of this cluster.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Consumer Services</b>				
<ul style="list-style-type: none"> <li>• Call Center</li> <li>• Customer Service</li> </ul>	<ul style="list-style-type: none"> <li>• Certified Financial Planner</li> <li>• Wellness</li> </ul>		<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Family Financial Management</li> <li>• Human Sciences</li> <li>• Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Human Sciences</li> <li>• Business Administration</li> </ul>
<b>Counseling and Mental Health Services</b>				
		<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Chemical Dependency Counselor</li> </ul>	<ul style="list-style-type: none"> <li>• Human &amp; Social Services</li> <li>• Psychology</li> <li>• Social Work</li> <li>• Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Marriage and Family Therapy</li> <li>• Psychology</li> <li>• Social Work</li> <li>• Community Counseling</li> </ul>
<b>Early Childhood Development and Services</b>				
	<ul style="list-style-type: none"> <li>• Nanny</li> <li>• Parenting</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> </ul>	<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Special Education and Communication Disorders</li> </ul>	<ul style="list-style-type: none"> <li>• Child Development</li> <li>• Early Childhood Education</li> <li>• Special Education and Communication Disorders</li> </ul>
<b>Family and Community Services</b>				
	<ul style="list-style-type: none"> <li>• Paraeducator</li> <li>• Family Life Specialist</li> <li>• Spirituality Biblical Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Theology</li> </ul>	<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Psychology &amp; Gerontology</li> <li>• Nutrition, Fitness, and Health Promotion</li> <li>• Social Work</li> </ul>	<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Psychology</li> <li>• Social Work</li> <li>• Human Services</li> </ul>
<b>Personal Care Services</b>				
	<ul style="list-style-type: none"> <li>• Barbering</li> <li>• Cosmetology</li> <li>• Nail Technology</li> <li>• Esthetics</li> <li>• Massage Therapy</li> </ul>	<ul style="list-style-type: none"> <li>• Mortuary Science</li> <li>• Cosmetology</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Mortuary Sciences</li> </ul>	



# DIGITAL TECHNOLOGY

Digital Technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. IT education can be obtained in four-year colleges, two-year community colleges, technical colleges and institutes, and high schools.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Business Analysis &amp; Project Management</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Tech Support Specialist *</li> </ul> Salary Range: \$30,400-\$76,800	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Business Systems Analyst *◇</li> <li>Tech Project Coordinator</li> <li>Technical Trainer</li> <li>SCRUM Master *</li> </ul> Salary Range: \$42,200-\$113,800	<ul style="list-style-type: none"> <li>Tech Support Manager</li> <li>IT Project Manager ◇</li> <li>Tech Director</li> </ul> Salary Range: \$42,200-180,500
<b>Cybersecurity</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Information Security Specialist *</li> </ul> Salary Range: \$44,800-\$131,000	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Information Security Analyst *</li> <li>Cryptographer</li> </ul> Salary Range: \$44,800-\$131,000	<ul style="list-style-type: none"> <li>Cyber Crime Investigator *</li> <li>Security Architect *</li> <li>Cybersecurity Engineer *</li> <li>Chief Information Security Officer *</li> </ul> Salary Range: \$38,400-\$336,000
<b>Data Technology</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Computer Operator</li> <li>Database Entry Specialist</li> </ul> Salary Range: \$20,700-\$47,900	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Database Developer *</li> </ul> Salary Range: \$63,900-\$143,200	<ul style="list-style-type: none"> <li>Data Architect *</li> <li>Data Warehouse Analyst *</li> <li>Business Intelligence Analyst *</li> <li>Data Scientist *</li> <li>GIS Specialist ◇</li> </ul> Salary Range: \$42,200-\$143,200
<b>Network &amp; Systems Infrastructure</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Systems Tech *</li> </ul> Salary Range: \$50,600-\$113,800	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Computer Network Specialist *◇</li> <li>Network Administrator *</li> </ul> Salary Range: \$41,200-\$113,300	<ul style="list-style-type: none"> <li>Network Architect *</li> <li>Hardware Engineer ◇</li> </ul> Salary Range: \$45,700-\$148,600
<b>Software Development &amp; Programming</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Junior Web Developer</li> <li>Mobile App Support *</li> <li>Quality Assurance Specialist</li> <li>User Interface/Experience Developer *</li> <li>Augmented/Virtual Reality Developer *</li> </ul> Salary Range: \$30,470-\$150,400	<ul style="list-style-type: none"> <li>Software Developer *</li> </ul> Salary Range: \$55,700-\$150,400	<ul style="list-style-type: none"> <li>Web Developer</li> <li>Application Developer *</li> <li>Programmer Analyst *</li> <li>Software Developer *</li> <li>SCRUM Master *</li> </ul> Salary Range: \$35,000-\$150,400	<ul style="list-style-type: none"> <li>Web Administrator ◇</li> <li>Computer Programmer *◇</li> <li>Software Engineer *◇</li> <li>Computer Scientist ◇</li> </ul> Salary Range: \$45,700-\$158,100

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEARS 1 & 2	YEAR 3	YEAR 4
<p>Students should consider taking ALL options:</p> <p><b>Mathematics:</b></p> <ul style="list-style-type: none"> <li>Honors Precalculus</li> <li>Statistics*</li> <li>Data Analysis*</li> </ul> <p><b>Computer Science:</b></p> <ul style="list-style-type: none"> <li>Introduction to Computer Science and Game Development and/or</li> <li>AP Computer Science Principles* and/or</li> <li>AP Computer Science A*</li> </ul>	<p>Students should take ANY one of these options:</p> <p><b>Mathematics:</b></p> <ul style="list-style-type: none"> <li>AP Statistics* and/or AP Calculus AB/BC*</li> </ul> <p><b>LAUNCH:</b></p> <ul style="list-style-type: none"> <li><b>Business Analytics Strand:</b> AP Statistics*, Business Strategy &amp; Mentorship</li> <li><b>Emerging Trends in IT Strand:</b> English 11/Writing for Research, Project Pursuit: Trends in IT &amp; Mentorship</li> <li><b>Engineering Foundations Strand:</b> English 11/Writing for Research, PLTW Engineering Design and Development &amp; Mentorship</li> <li><b>Global Business Strand:</b> English 11/Writing for Research, Business Strategy &amp; Mentorship</li> <li><b>Media Solutions Strand:</b> English 11/Writing for Research, Digital Imaging Seminar &amp; Mentorship</li> </ul>	<p>LAUNCH Data Science &amp; Intelligence for Careers Strand</p> <ul style="list-style-type: none"> <li>Python for Data Science</li> <li>Math for Data Science</li> <li>Mentorship</li> </ul>

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- |   |   |
|---|---|
| <p><b>A TE:</b></p> <ul style="list-style-type: none"> <li>Computer Aided Design (CAD)*</li> <li>PLTW Engineering Design and Development (EDD)</li> </ul> | <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>Software Applications</li> </ul> |
|---|---|

\* **Dual Credit Course** 

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- HOSA
- Chess Club
- Computer Science National Honor Society
- Math Club
- Mu Alpha Theta

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Statistics
- AP Calculus
- Computer Aided Design (CAD) - Advanced Standing at WCTC if student also completes PLTW Intro to Engineering Design
- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

### WORK-BASED LEARNING OPTIONS

- Information Technology Co-Op
- Employability Skills
- State Skill Standards Co-Op- Business/IT
- Youth Apprenticeship- IT
- Local Work-based Learning Programs that meet state quality requirements

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- AutoDesk Certified User
- Adobe Certified Associate (ACA)
- IC3
- Microsoft MOS, MTA, MCSA, MCSD, MCSE via Microsoft or Certiport
- Oracle Certified Junior Associate or higher
  - Java Foundations
  - Oracle Database Foundations



# LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

The Law, Public Safety, Corrections, and Security Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Correction Services</b>				
<ul style="list-style-type: none"> <li>• Correctional Officer</li> <li>• Security Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> <li>• Corrections Officer</li> <li>• Parole Officer</li> <li>• Probations Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Criminal Justice</li> <li>• Social Work</li> <li>• Pre-Law</li> </ul>	<ul style="list-style-type: none"> <li>• Law and Legal Services</li> <li>• Criminal Justice</li> </ul>
<b>Emergency &amp; Fire Management Services</b>				
<ul style="list-style-type: none"> <li>• Police, Fire, and Ambulance Dispatch</li> <li>• Volunteer Firefighting</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency Medical Technician (EMT)</li> <li>• Emergency Management</li> <li>• Fire Science Technology</li> <li>• Hazardous Materials Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency Medical Technician (EMT)</li> <li>• Fire Protection</li> <li>• Fire Science Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency Medical Services</li> </ul>	
<b>Legal Services</b>				
<ul style="list-style-type: none"> <li>• Animal Control</li> <li>• Parking Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice - Law Enforcement</li> <li>• Wisconsin Law Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>
<b>Security &amp; Protective Services</b>				
	<ul style="list-style-type: none"> <li>• Paralegal Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Administrative Assistant - Legal</li> <li>• Paralegal/Legal Assistant</li> <li>• Criminal Justice - Court Emphasis</li> </ul>	<ul style="list-style-type: none"> <li>• Paralegal Studies</li> <li>• Pre-Law/Legal Studies</li> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Law and Legal Studies</li> <li>• Criminal Justice</li> </ul>
<b>Correction Services</b>				
		<ul style="list-style-type: none"> <li>• Criminal Justice - Law Enforcement</li> <li>• Wisconsin Law Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> <li>• Law and Legal Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>





### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking:</p> <ul style="list-style-type: none"> <li>Human Geography or AP Human Geography*</li> </ul>	<p>Students should take ANY of these options:</p> <ul style="list-style-type: none"> <li>Psychology</li> <li>AP Psychology*</li> <li>Business Law</li> </ul>	<p>Students should take ANY of these options:</p> <ul style="list-style-type: none"> <li>AP United States Government and Politics*</li> <li>LAUNCH Law and Public Policy Strand               <ul style="list-style-type: none"> <li>AP English Language and Composition*</li> <li>Current Issues</li> <li>Crime, Society and Law</li> <li>Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- ARCh Youth Club
- B'East PAC
- Black Student Union
- Culture Club
- Debate Club
- Distinguished Young Women
- Gay Straight Alliance
- Mock Trial
- Model United Nations
- Muslim Student Club
- PRISM Club
- She's the First Student Council
- UNICEF

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Capstone:</b></p> <ul style="list-style-type: none"> <li>AP Seminar*</li> <li>AP Research*</li> </ul> <p><b>English:</b></p> <ul style="list-style-type: none"> <li>Speech Communication</li> <li>Public Speaking*</li> <li>Writing for College*</li> <li>AP English Language and Composition*</li> </ul>	<p><b>Mathematics:</b></p> <ul style="list-style-type: none"> <li>Precalculus*</li> <li>Statistics*</li> <li>Data Analysis*</li> <li>AP Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>Abnormal Psychology</li> <li>AP Micro Economics*</li> <li>AP Macro Economics*</li> <li>AP U.S. Government &amp; Politics*</li> <li>AP U.S. History*</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>Any World Language</li> </ul>
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\* Dual Credit Course

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Human Geography
- AP Psychology
- AP English Language & Composition
- AP US Government and Politics
- AP Economics: Micro & Macro
- Advanced World Languages (CAPP)

### WORK-BASED LEARNING OPTIONS

- LAUNCH (Work-based mentorship and project-based learning) Law and Public Policy (Advanced Level Coursework, Year 3 or 4)

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Harper: Paralegal Studies



# ADVANCED MANUFACTURING

Despite improvements in production technology and rising imports, manufacturing employment is expected to increase slightly as strong demand continues for high-tech electrical goods and pharmaceuticals. Between 2002 and 2012, pharmaceutical and medicine manufacturing employment is expected to increase by 68,000 jobs, plastics and rubber products manufacturing by 138,000 jobs, machinery manufacturing by 120,000 jobs, and a 97,000 projected job growth for fabricated metal product manufacturing.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification/ Technical Diploma	Registered Apprenticeship	Associate's Degree	Bachelor's Degree and Beyond
<b>Production</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Paint Technician *</li> <li>Food Processing Operator</li> <li>Welder *</li> <li>Sheet Metal Worker ◇ *</li> <li>Production Technician *</li> </ul> Salary Range: \$20,100-\$81,300	<ul style="list-style-type: none"> <li>Industrial Pipefitter *</li> <li>Tool and Die Maker *</li> <li>Pattern Maker</li> <li>Machinist ◇ *</li> <li>Mold Maker</li> </ul> Salary Range: \$25,700-\$99,700	<ul style="list-style-type: none"> <li>Manufacturing Machine Operator ◇ *</li> </ul> Salary Range: \$28,600-\$54,400	<ul style="list-style-type: none"> <li>Manufacturing Manager ◇ *</li> <li>Operations Manager</li> </ul> Salary Range: \$54,100-\$250,100
<b>Engineering and Design</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>CAD Drafter</li> <li>Quality Assurance Technician *</li> </ul> Salary Range: \$35,000-\$75,900		<ul style="list-style-type: none"> <li>Drafter ◇ *</li> </ul> Salary Range: \$35,000-\$75,900	<ul style="list-style-type: none"> <li>Electrical Engineer ◇</li> <li>Mechanical Engineer ◇</li> <li>Environmental Engineer ◇</li> <li>Quality Controller ◇ *</li> </ul> Salary Range: \$35,700-\$126,800
<b>Industry 4.0 (Automation)</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Robotic Welder *</li> <li>Quality Controller ◇ *</li> <li>Robotics Technician *</li> </ul> Salary Range: \$32,900-\$92,100	<ul style="list-style-type: none"> <li>Electrical Discharge Machining Technician</li> </ul> Salary Range: \$36,800-\$77,900	<ul style="list-style-type: none"> <li>Electronics Engineering Tech ◇</li> <li>Computer Network Specialist ◇</li> <li>Manufacturing Engineer Tech</li> <li>Business Analyst *</li> <li>Chemical Engineering Tech ◇</li> </ul> Salary Range: \$33,800-\$127,500	<ul style="list-style-type: none"> <li>Process Engineer *</li> <li>Business Intelligence Analyst</li> <li>Chemical Engineer</li> <li>Computer Scientist ◇ *</li> </ul> Salary Range: \$54,100-\$158,100
<b>Electro-Mechanical</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Electrical Engineering Tech ◇ *</li> <li>Industrial Engineering Tech ◇ *</li> <li>Industrial Maintenance Mechanic ◇ *</li> </ul> Salary Range: \$35,300-\$79,700	<ul style="list-style-type: none"> <li>Millwright ◇ *</li> <li>CNC Technician *</li> <li>Industrial Electrician *</li> <li>Industrial Machinery Technician ◇</li> <li>Maintenance Mechanic ◇ *</li> <li>Mechatronics Technician *</li> </ul> Salary Range: \$23,600-\$95,300	<ul style="list-style-type: none"> <li>Mechanical Engineering Technician</li> <li>Electrical Engineer Technician</li> <li>Electro-mechanical Technician</li> </ul> Salary Range: \$34,300-\$89,100	<ul style="list-style-type: none"> <li>Industrial Engineer ◇ *</li> <li>Manufacturing Engineer *</li> <li>Electrical Engineer ◇</li> </ul> Salary Range: \$50,300-\$117,700
<b>Supply Chain</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Robotics and Material Handler Technician</li> <li>Inventory Control *</li> </ul> Salary Range: \$23,500-\$74,500		<ul style="list-style-type: none"> <li>Buyer</li> <li>Production Planner</li> <li>Logistics Analyst</li> </ul> Salary Range: \$32,900-\$98,500	<ul style="list-style-type: none"> <li>Purchasing Managers</li> <li>Supply Chain Analyst</li> <li>Procurement Manager *</li> <li>Data Warehouse Analyst *</li> </ul> Salary Range: \$63,900-\$155,900

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

# Manufacturing Production Process Development

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>PLTW Introduction to Engineering Design (IED)</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>PLTW Robotics &amp; Automation</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>LAUNCH Advanced Manufacturing Technologies                             <ul style="list-style-type: none"> <li>AP Computer Science Principles*</li> <li>Future Makers Capstone</li> <li>Mentorship</li> </ul> </li> <li>PLTW Engineering Design and Development (EDD) Capstone</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Robotics FRC
- Robotics FTC
- Women in Engineering

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

### ART/ATE:

- Digital Imaging and Design I, II, Seminar

### ATE:

- Computer Aided Design (CAD)\*
- PLTW Digital Electronics (DE)
- PLTW Principles of Engineering (POE)

### COMPUTER SCIENCE:

- AP Computer Science A\*

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT

OPPORTUNITIES 

- AP Computer Science A
- AP Computer Science Principles
- Computer Aided Design (CAD) - Advanced Standing at WCTC if student also completes PLTW Intro to Engineering Design
- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

## WORK-BASED LEARNING OPTIONS

- LAUNCH (Work-based mentorship and project-based learning) Advanced Manufacturing Technologies (Advanced Level Coursework, Year 3 or 4)
- Employability Skills Co-Op
- Youth Apprenticeship-Manufacturing

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- American Welding Society (AWS) Level 1 Entry Welder
- Manufacturing Skills Standards Council-Certified Production Technician (full program or any of the modules)
- National Institute for Metal Working Skills (NIMS):
  - Industrial Technology Maintenance Level 1
  - Machining Level 1
  - Metalfforming Level 1



# MARKETING

The Marketing Cluster includes career opportunities whose processes create, communicate, and deliver value to customers and manage customer relationships in ways that benefit the organization and its stakeholders.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Marketing Communications</b>				
	<ul style="list-style-type: none"> <li>Practitioners</li> <li>Public Relations</li> <li>Public Relations Society of America</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Marketing</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Communications Management</li> <li>Marketing</li> <li>Public Relations</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>
<b>Marketing Management</b>				
<ul style="list-style-type: none"> <li>Industrial and Trade Association Programs</li> <li>Conference Seminars</li> </ul>		<ul style="list-style-type: none"> <li>Business Administration</li> <li>Entrepreneurship Management</li> <li>Marketing</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration Management</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>
<b>Marketing Research</b>				
	<ul style="list-style-type: none"> <li>Product Vendors</li> <li>Professional and Technical Organizations</li> <li>Software Firms</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Continued Education for Rapid Technological Advances</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Economics</li> <li>Information Science/Systems Management</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>
<b>Merchandising</b>				
		<ul style="list-style-type: none"> <li>Business Administration</li> <li>Business Marketing</li> <li>Merchandising/Sales</li> <li>Customer Service</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration Management</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> </ul>
<b>Professional Selling</b>				
	<ul style="list-style-type: none"> <li>Management</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Business Administration</li> <li>Marketing</li> <li>Retail Management</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration Management</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Business Leadership (Level 1) Capstone</li> <li>• LAUNCH Media Solutions Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Digital Imaging Seminar</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Art Club
- Community Art Club
- Forensics
- Spartan Banner
- Student Council
- Yearbook

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- |   |  |  |
|---|--|--|
| <p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging 1</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Business Law</li> </ul> | <p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Creative Writing*</li> <li>• Speech Communication</li> <li>• Writing for Publication</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• AP Statistics*</li> </ul> | <p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul> |
|---|--|--|

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- Business & Society (UWM)

## WORK-BASED LEARNING OPTIONS

- Advanced Marketing Co-Op
- Marketing Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
  - Illustrator
  - InDesign
  - Photoshop
  - Premiere Pro
- Microsoft Office Specialist (MOS) – any two certifications

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> <li>• Business Management</li> <li>• Business Law</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Business Leadership Level 1 Capstone</li> <li>• LAUNCH Business Analytics Strand                             <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Class Council
- Community Art Club
- Distinguished Young Women
- Forensics
- Key Club
- Link Crew
- Spartan Banner
- Student Council
- Yearbook

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Marketing</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Creative Writing*</li> <li>• Speech Communication</li> <li>• Writing for Publication</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- Business & Society (UWM)
- Statistics & Data Analysis (CAPP)

## WORK-BASED LEARNING OPTIONS

- Sports and Entertainment Co-Op
- Marketing Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
  - Illustrator
  - InDesign
  - Photoshop
  - Premiere Pro
- Microsoft Office Specialist (MOS) – any two certifications

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• AP Macro Economics*</li> <li>• AP Micro Economics*</li> <li>• LAUNCH Business Analytics Strand                             <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Computer Science National Honor Society
- Forensics
- Math Club
- Student Council
- SMART Team

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging 1</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> <li>• Video Production</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Business Law</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p><b>Capstone:</b></p> <ul style="list-style-type: none"> <li>• AP Research*</li> <li>• AP Seminar*</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- Business & Society (UWM)
- AP Macro Economics
- AP Micro Economics
- AP Statistics

## WORK-BASED LEARNING OPTIONS

- Marketing Co-Op
- Marketing Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
  - Illustrator
  - InDesign
  - Photoshop
  - Premiere Pro
- Microsoft Office Specialist (MOS) – any two certifications

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> <li>• Digital Imaging I</li> </ul>	<p>Students should take ALL one of these options:</p> <ul style="list-style-type: none"> <li>• Digital Imaging II</li> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Hospitality Innovation Strand                             <ul style="list-style-type: none"> <li>• International Cuisine</li> <li>• Advanced Marketing</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Business &amp; Society                             <ul style="list-style-type: none"> <li>• Business &amp; Society*</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Community Art Club
- Economics Club
- Forensics
- Spartan Banner
- Student Council Yearbook

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> <li>• Video Production</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> <li>• Business Leadership</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Writing for Publication</li> <li>• Speech Communication</li> <li>• Public Speaking*</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• AP Statistics*</li> <li>• Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- Business & Society (UWM)

## WORK-BASED LEARNING OPTIONS

- Retail Management Co-Op
- Marketing Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
  - Illustrator
  - InDesign
  - Photoshop
  - Premiere Pro
- Microsoft Office Specialist (MOS) – any two certifications



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ALL one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> <li>• Data Analysis*</li> <li>• Statistics*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Hospitality Innovation Strand                             <ul style="list-style-type: none"> <li>• International Cuisine</li> <li>• Advanced Marketing</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy</li> <li>• Mentorship</li> </ul> </li> <li>• Business &amp; Society*</li> <li>• Financial Management and Investing*</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Community Art Club
- Economics Club
- Forensics
- Spartan Banner
- Student Council
- Yearbook

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> <li>• Video Production</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> <li>• Business Leadership</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Writing for Publication</li> <li>• Speech Communication</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Statistics*</li> <li>• Data Analysis*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- Business & Society (UWM)
- Statistics & Data Analysis (CAPP)

### WORK-BASED LEARNING OPTIONS

- E-Commerce Co-op
- Entrepreneurship Co-op
- Professional Sales Co-op
- Marketing Youth Apprenticeship

COURSES

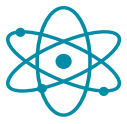
DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

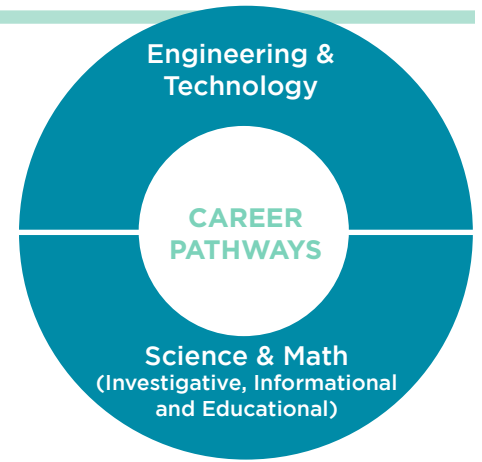
INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
  - Illustrator
  - InDesign
  - Photoshop
  - Premiere Pro
- Microsoft Office Specialist (MOS) – any two certifications



# SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

A career in Science, Technology, Engineering, or Mathematics is exciting, challenging, and ever-changing. Learners who pursue this cluster will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Engineering &amp; Technology</b>				
	<ul style="list-style-type: none"> <li>Industrial Technology</li> </ul>	<ul style="list-style-type: none"> <li>Architectural Design Technology</li> <li>Civil Engineering Technology</li> <li>Industrial Technology</li> <li>Surveying and Computer Aided Drafting (CAD)</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Engineering</li> <li>Biological Systems Engineering</li> <li>Chemical Engineering</li> <li>Construction Engineering Technology</li> <li>Industrial Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural and Biological Systems</li> <li>Architectural Engineering</li> <li>Chemical Engineering</li> <li>Civil Engineering</li> <li>Mechanical Engineering</li> </ul>
<b>Science &amp; Math (Investigative, Informative and Educational)</b>				
		<ul style="list-style-type: none"> <li>Biology</li> <li>Chemistry</li> <li>Laboratory Science Technology</li> <li>Medical Laboratory Technology</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry</li> <li>Economics</li> <li>Mathematics</li> <li>Molecular Biology</li> <li>Physics</li> </ul>	<ul style="list-style-type: none"> <li>Biochemistry</li> <li>Biological Sciences</li> <li>Chemistry</li> <li>Physics and Astronomy</li> <li>Statistics</li> </ul>

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• PLTW Introduction to Engineering Design (IED)</li> <li>• Precalculus*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• PLTW Robotics &amp; Automation</li> <li>• PLTW Principles of Engineering</li> <li>• Computer Aided Design (CAD)</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Engineering Foundations Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• PLTW Engineering Design and Development (EDD)</li> <li>• Mentorship</li> </ul> </li> <li>• PLTW Aerospace Engineering (AE)</li> <li>• PLTW Engineering Design and Development (EDD)</li> <li>• PLTW Digital Electronics</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Math Club
- Robotics - FRC
- Robotics - FTC
- Society of Women Engineers

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- Honors Precalculus
- AP AB Calculus\*
- AP BC Calculus\*
- Calculus III\*

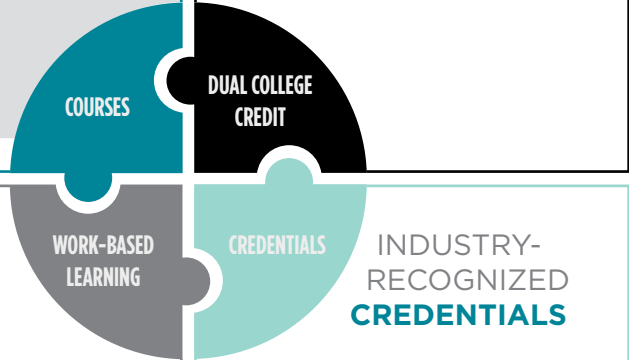
\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP AB Calculus\*
- AP BC Calculus\*
- Calculus III (CAPP)
- Precalculus (CAPP)

## WORK-BASED LEARNING OPTIONS

- Information Technology Co-op
- Engineering and Technology Youth Apprenticeship





# TRANSPORTATION, DISTRIBUTION AND LOGISTICS

This Cluster exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail, and water.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Facility &amp; Mobile Equipment Maintenance</b>				
<ul style="list-style-type: none"> <li>Auto Body Repair</li> <li>Automotive and Diesel Technology</li> </ul>	<ul style="list-style-type: none"> <li>Auto Body Repair</li> <li>Auto Mechanics</li> <li>Aviation Airframe Maintenance</li> <li>Industrial Maintenance</li> <li>Electronics</li> </ul>	<ul style="list-style-type: none"> <li>Aeronautical and Aerospace</li> <li>Engineering Technology</li> <li>Automotive Technology</li> <li>Aviation Airframe Maintenance</li> <li>Electronic Technology</li> </ul>	<ul style="list-style-type: none"> <li>Engineering</li> <li>Industrial Engineering</li> <li>Mechanical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Industrial and Management Systems</li> <li>Engineering</li> <li>Mechanical Engineering</li> </ul>
<b>Health, Safety &amp; Environmental Management</b>				
		<ul style="list-style-type: none"> <li>Environmental Engineering Technology</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Physics</li> <li>Environmental Engineer</li> <li>Environmental Science</li> <li>Environmental Studies</li> <li>Industrial Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Engineering</li> <li>Environmental Science</li> <li>Environmental Studies</li> </ul>
<b>Logistics Planning &amp; Management Services</b>				
	<ul style="list-style-type: none"> <li>Business</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Industrial Technology</li> <li>Logistics and Materials Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Industrial Distribution &amp; Technology</li> <li>Management Technology</li> <li>Operations Management</li> <li>Logistics and Materials Management</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Management</li> <li>Industrial and Management Systems</li> <li>Engineering</li> <li>Operations Management</li> </ul>
<b>Sales &amp; Services</b>				
<ul style="list-style-type: none"> <li>Cashier</li> <li>Customer Service</li> <li>Travel Agent</li> </ul>	<ul style="list-style-type: none"> <li>Desktop Publishing</li> <li>Entrepreneurship</li> <li>Parts, Sales, and Management</li> <li>Travel Services</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Marketing</li> <li>Marketing Management</li> <li>Parts, Sales, and Management</li> </ul>	<ul style="list-style-type: none"> <li>Advertising</li> <li>Business</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Advertising</li> <li>Business</li> <li>Marketing</li> </ul>
<b>Transportation Operations</b>				
<ul style="list-style-type: none"> <li>Taxi Driving</li> <li>Locomotive Engineering</li> <li>Bus Driving</li> <li>Truck Driving</li> </ul>	<ul style="list-style-type: none"> <li>Air Traffic Control</li> <li>ADL Driver Training Class A, B</li> <li>Commercial Pilot and Flight Crew Training</li> <li>Vehicle and Equipment Operation</li> </ul>	<ul style="list-style-type: none"> <li>Air Traffic Control</li> <li>Commercial Pilot and Flight Crew Training</li> </ul>	<ul style="list-style-type: none"> <li>Air Traffic Control</li> </ul>	
<b>Transportation/Systems Infrastructure Planning, Management &amp; Regulations</b>				
		<ul style="list-style-type: none"> <li>Civil Engineering</li> <li>Surveying and CAD</li> </ul>	<ul style="list-style-type: none"> <li>Aviation Systems Management</li> <li>Civil Engineering</li> <li>Maritime Science</li> <li>Naval Architecture and Marine Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Civil Engineering</li> <li>Engineering Management</li> <li>Naval Architecture and Marine Engineering</li> </ul>
<b>Warehousing &amp; Distribution Center Operations</b>				
<ul style="list-style-type: none"> <li>Shipping and Receiving</li> <li>Storage Distribution</li> </ul>	<ul style="list-style-type: none"> <li>CDL Driver Training Class A, B</li> <li>Forklift Training</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Logistics and Materials Management</li> <li>Warehouse Management</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Logistics and Materials Management</li> </ul>	<ul style="list-style-type: none"> <li>Logistics and Materials Management</li> </ul>

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>• Small Engines</li> <li>• PLTW Intro to Engineering Design (IED)* and Computer Aided Design (CAD)*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Automotive Technology I*</li> <li>• Automotive Technology II</li> <li>• Automotive Technology III</li> <li>• PLTW Principles of Engineering (POE)</li> <li>• PLTW Robotics &amp; Automation</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Automotive Academy - Capstone</li> <li>• PLTW Engineering Design &amp; Development (EDD)</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Robotics- FRC
- Robotics- FTC
- Society of Women Engineers

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### ATE:

- PLTW Digital Electronics

#### Computer Science:

- AP Computer Science Principles\*

#### Business:

- Business Management
- Entrepreneurship
- Software Applications

\* **Dual Credit Course**

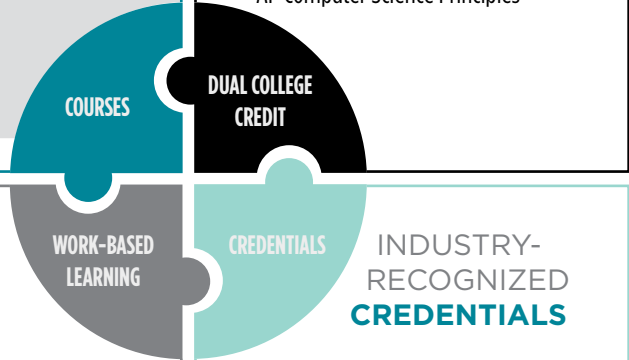
### DUAL COLLEGE CREDIT

OPPORTUNITIES 

- Automotive Technology I - WCTC Advance Standing
- PLTW Intro to Engineering (IED) AND Computer Aided Design (CAD) - WCTC Advance Standing
- AP Computer Science Principles

### WORK-BASED LEARNING OPTIONS

- Auto Collision Youth Apprenticeship
- Diesel Technician Youth Apprenticeship
- Auto Technician Youth Apprenticeship



INDUSTRY-RECOGNIZED CREDENTIALS

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>PLTW Intro to Engineering Design (IED)*</li> </ul>	<p>Students should take ALL of these options:</p> <ul style="list-style-type: none"> <li>PLTW Principles of Engineering (POE)</li> <li>AP Physics I*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>AP Physics C*</li> <li>PLTW Aerospace Engineering</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Robotics- FRC
- Robotics- FTC
- Society of Women Engineers

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

**Business:**

- Business Law

**Computer Science:**

- AP Computer Science Principles\*
- Software Applications

**LAUNCH:**

- Data Science and Intelligence for Careers Strand
  - Math for Data Science
  - Python for Data Science
  - Mentorship
- Engineering Foundations Strand
  - English 11/Writing for Research
  - PLTW Engineering Design and Development
  - Mentorship

**Mathematics:**

- Functions & Trigonometry
- Statistics\*
- AP Statistics\*
- Data Analysis\*
- Precalculus\*
- AP AB Calculus\*
- AP BC Calculus\*

**Science:**

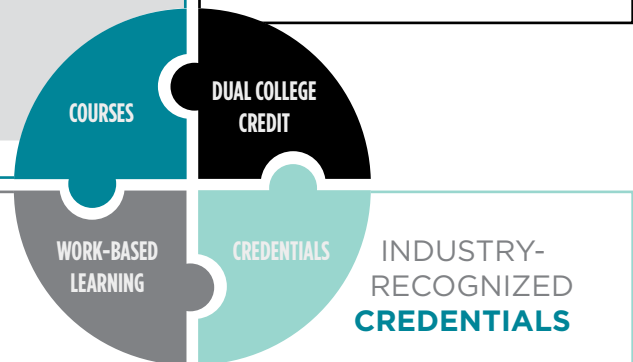
- Astronomy & Meteorology
- AP Physics II- Algebra-Based\*

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Physics 1
- AP Physics C
- AP Computer Science Principles
- AP Statistics
- AP AB Calculus
- AP BC Calculus
- AP Physics II- Algebra-Based
- AP Human Geography
- Statistics & Data Analysis (CAPP)
- Precalculus (CAPP)

\* Dual Credit Course

### WORK-BASED LEARNING OPTIONS



INDUSTRY-RECOGNIZED CREDENTIALS



# COURSE OFFERINGS

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High School Course Correlation Table

Course Offerings







- AP Capstone
- Applied Technology and Engineering
- Art (Visual Arts)
- Business
- Computer Science
- English Language Arts
- Experiential Learning
- Family and Consumer Sciences
- Health
- LAUNCH
- Leadership
- Mathematics
- Music
- Physical Education
- Science
- Social Studies
- World Languages

Courses at a Glance

# COURSE CORRELATION TABLE

**INTERACTIVE TABLE**  
Click on the Program of Study or Department Header Bar to jump to the corresponding page.

Use the table as a guide to determine how Elmbrook high school courses align with each of the 16 career clusters.







CAREER CLUSTERS	Agriculture, Food, Natural Resources	Architecture & Construction	Arts, A/V Technology & Communications	Business Management & Administration	Education & Training	Finance	Government & Public Administration	Health Science	Hospitality & Tourism	Human Services	Information Technology	Law, Public Safety, Corrections & Security	Manufacturing	Marketing	Science, Technology, Engineering & Mathematics	Transportation, Distribution & Logistics
<b>AP CAPSTONE</b>																
AP Seminar 	X	X		X	X	X	X	X		X	X	X			X	X
AP Research 	X	X		X	X	X	X	X		X	X	X			X	
<b>APPLIED TECHNOLOGY &amp; ENGINEERING</b>																
Architecture		X	X												X	
Automotive Academy													X			
Automotive Technology I													X			X
Automotive Technology II													X			X
Automotive Technology III													X			X
Building Construction I		X											X			
Building Construction II		X											X			
Computer Aided Design (CAD) 		X									X		X		X	X
Digital Imaging I		X	X								X		X	X		
Digital Imaging II		X	X								X		X	X		
Digital Imaging Seminar		X	X								X		X	X		
PLTW: Aerospace Engineering		X									X		X		X	X
PLTW: Robotics and Automation (CIM)		X									X		X		X	X
PLTW: Digital Electronics (DE)		X									X		X		X	X
PLTW: Engineering Design & Development (EDD)		X									X		X		X	X
PLTW: Introduction to Engineering Design (IED) 		X									X		X		X	X
PLTW: Principles of Engineering (POE)		X									X		X		X	X
Small Engines													X		X	
Technology Assistant																
Video Production			X								X			X		
Wood Design & Production I	X	X											X			
Wood Design & Production II	X	X											X			
Woods Seminar	X	X														
Yearbook Publishing Design and Production			X								X			X		
<b>ART (VISUAL ARTS)</b>																
Art Lab		X	X											X		
AP Art & Design 		X	X						X		X			X		
AP Art History 		X	X				X		X						X	
Art Metals I		X	X										X			X
Art Metals II		X	X										X			X



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	<b>ART (VISUAL ARTS)</b>															
Art Metals III		X	X										X			X
Art Seminar		X	X													
Ceramics & Sculpture I		X	X													
Ceramics & Sculpture II		X	X													
Ceramics & Sculpture III		X	X													
Design Drawing & Color Theory 			X								X			X		
Digital Illustration 			X								X			X		
Digital Imaging I			X								X		X	X		
Digital Imaging II			X								X		X	X		
Digital Imaging Seminar			X								X		X	X		
Drawing I		X	X										X	X		
Drawing II		X	X										X	X		
Drawing III		X	X										X	X		
Image Editing/Photoshop 		X	X								X		X	X		
Page Layout/InDesign 		X	X								X			X		
Painting I			X													
Painting II			X													
Painting III			X													
Printmaking Mixed Media I			X										X			
Printmaking Mixed Media II			X										X			
Printmaking Mixed Media III			X										X			
Video Production			X								X					
Yearbook Publishing Design & Production			X								X					
<b>BUSINESS</b>																
Business & Society 						X	X									
Business Law			X	X		X	X		X			X		X		
Business Leadership				X			X		X					X		X
Business Management				X		X	X		X							X
Business Strategy (LAUNCH)																
College Accounting		X				X			X	X			X	X		
Entrepreneurship				X		X	X		X	X	X	X	X	X	X	X
Financial Management & Investing 	X	X		X		X				X			X			
Introduction to Accounting		X				X			X					X		
Introduction to Business										X				X		X
Introduction to Marketing						X	X							X		X
Keyboarding & Digital Technologies				X	X									X		
Notetaking and Study Skills					X											
Personal Finance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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	<b>BUSINESS</b>															
Software Applications				X	X	X		X				X		X	X	X
Sports & Entertainment Marketing			X	X					X					X		
<b>COMPUTER SCIENCE</b>																
Advanced Game Development & Comp Sci Topics			X								X		X		X	
AP Computer Science A			X								X		X		X	X
AP Computer Science Principles								X			X		X		X	X
Intro to Computer Programming & Game Development			X								X				X	
Python for Data Science (LAUNCH)											X				X	
Student Technology Team															X	
Web Design and Mobile Applications			X								X				X	
<b>ENGLISH</b>																
AP English Language & Composition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP English Literature & Composition			X				X									
Creative Writing			X											X		
Drama as Literature			X													
Dystopian & Utopian Literature			X													
English 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
English 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
English 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors English 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors English 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Literature in Film			X													
Literature: Giants in Time			X													
Oral Interpretation, Acting & Directing			X													
Public Speaking	X	X	X	X	X		X	X	X	X	X	X	X	X		X
Real Lives: Memoir/Autobiography			X													
Senior Literature Seminar			X													
Speech Communication	X	X	X	X	X		X	X	X	X	X	X	X	X		X
Stagecraft: Introduction to Theater			X													
The Graphic Novel			X													
Writing for College	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Writing for Publication			X	X	X		X							X		
Writing for Research (LAUNCH)																
<b>EXPERIENTIAL LEARNING</b>																
Career and Employment Opportunities (CEO)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mentorship	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Project Pursuit	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Youth Apprenticeship	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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	<b>FAMILY &amp; CONSUMER SCIENCES</b>															
Fashion Analysis			X											X		
Introduction to Elements of Design			X													
Principles of Interior Design		X	X													
<b>HEALTH</b>																
Exercise Science	X				X			X		X					X	
Health Education	X				X			X		X					X	
<b>LAUNCH</b>																
Advanced Manufacturing Technologies																
Business Analytics																
Data Science & Intelligence for Careers																
Emerging Trends in IT																
Engineering Foundations																
Foundations of Body Systems & Disease																
Future Teachers/Future Teachers 2.0																
Global Business																
Healthcare Solutions																
Hospitality Innovations																
Law and Public Policy																
Media Solutions																
Medicine & Healthcare																
Skilled Building Trades																
<b>LEADERSHIP</b>																
Leadership Principles	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>MATHEMATICS</b>																
Algebra I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Algebra II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Calculus AB 	X	X				X		X			X		X		X	
AP Calculus BC 	X	X				X		X			X				X	
AP Statistics 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calculus III 																
Data Analysis 	X	X	X			X		X	X	X	X				X	X
Functions and Trigonometry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geometry																
Honors Algebra II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors Geometry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Math for Data Science											X				X	
Precalculus 	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Honors Precalculus	X	X				X		X			X		X		X	
Statistics 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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	<b>MUSIC</b>															
Chamber Choir			X													
Chamber Orchestra			X													
Concert Choir			X													
Concert Band			X													
Digital Music for Musicians and Non-Musicians			X													
Exploring Music Theory and Composition			X													
Symphonic Band			X													
Symphony Orchestra			X													
Treble Choir			X													
Wind Ensemble			X													
Women's Ensemble			X													
<b>PHYSICAL EDUCATION</b>																
Advanced Team and Individual Sports																
Lifeguarding					X				X							
Lifetime Sports									X							
Outdoor Pursuits									X							
Personal Fitness and Wellness	X				X			X		X						
PE 09																
Sports Officiating				X								X		X		
Racquet and Team Sports																
Ultimate Strength and Conditioning					X			X								
Variety Sports																
<b>SCIENCE</b>																
Anatomy Physiology	X							X		X					X	
AP Biology 	X							X		X					X	
AP Chemistry 	X							X			X		X		X	
AP Environmental Science 	X	X											X		X	X
AP Physics C 	X	X						X			X		X		X	X
AP Physics I 	X	X						X			X		X		X	X
AP Physics II: Algebra-Based 	X	X						X			X		X		X	X
Astronomy & Meteorology	X														X	
Biology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chemistry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Culture of Healthcare 	X							X		X					X	
Ecology	X														X	
Geology	X	X													X	
Honors Biology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors Chemistry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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	<b>SCIENCE</b>															
Marine Biology	X														X	
Medical Terminology	X							X		X					X	
Organic Chemistry	X							X							X	
Physics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PLTW Biomedical Innovation	X							X		X					X	
PLTW Human Body Systems (HBS)	X							X		X					X	
PLTW Medical Interventions (MI)	X							X		X					X	
PLTW Principles of Biomedical Science (PBS)	X							X		X					X	
<b>SOCIAL STUDIES</b>																
20th Century American History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Abnormal Psychology					X			X		X		X				
AP European History		X					X		X							
AP Human Geography	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Macro Economics	X			X		X	X		X				X	X		X
AP Micro Economics	X			X		X	X		X				X	X		X
AP Psychology				X	X		X	X	X	X		X		X		
AP United States History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP US Government and Politics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP World History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Crime, Society and the Law							X			X		X				
Educational Inquiry 1: Critical Perspectives on Education					X					X						
Current Issues	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economics	X			X		X	X	X	X				X	X		X
Human Geography	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Modern Society			X	X	X		X	X	X	X		X		X		
Principles of American Democracy																
Psychology				X	X		X	X	X	X		X		X		
World History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>WORLD LANGUAGES</b>																
French 1 - French 4	World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.															
French 5																
German 1 - German 4																
German 5																
Latin 1 - Latin 3																
Latin 4																
Latin 5																
Mandarin Chinese 1 - Mandarin Chinese 3																
Mandarin Chinese 4																
Spanish 1 - Spanish 4																
Spanish 5																
Spanish 6																

# COURSE OFFERINGS

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Use the headings below to navigate to each department's course offerings.

- AP Capstone
- Applied Technology and Engineering
- Art (Visual Arts)
- Business
- Computer Science
- English Language Arts
- Experiential Learning
- Family and Consumer Sciences
- Health
- LAUNCH
- Leadership
- Mathematics
- Music
- Physical Education
- Science
- Social Studies
- World Languages

# AP CAPSTONE

AP Capstone is an innovative, college-level program based upon two AP offerings - AP Seminar and AP Research - that complement and enhance discipline specific AP courses.

## AP Research

7902A/7902B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Advanced Placement Seminar

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4000 - 5000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

**WEIGHTED GRADE**

## AP Seminar

7901A/7901B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

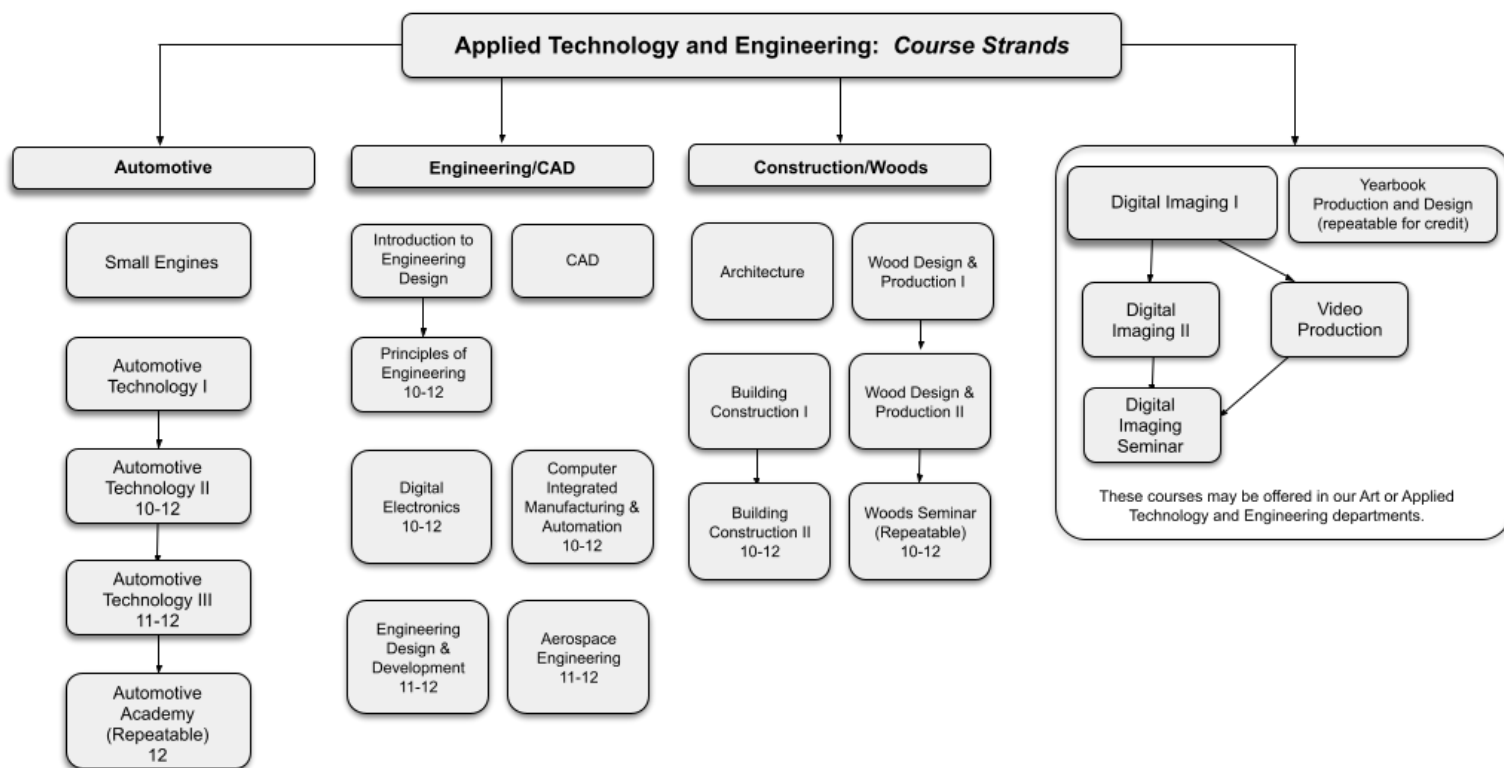
**Prerequisite(s)** None

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**WEIGHTED GRADE**

# APPLIED TECHNOLOGY & ENGINEERING

**Graduation Requirements:** Applied Technology & Engineering courses can apply toward the 1.0 credit Practical/Fine Arts requirement.



## Architecture

1001

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No  
**Prerequisite(s)** None

Architecture is defined as the art and science of designing buildings and structures. In this course, students will design a structure relevant to today's modern architecture. Students will gain skills and knowledge on computer drawn plans and create a set of working drawings relevant to their structure. These plans shall include, floor plans, electrical plans, plumbing plans, structural plans, stair and roof plans, elevations and plot plans. Architecture requires strong technical knowledge in the fields of engineering, logistics, geometry, building techniques, functional design and ergonomics. This class is a foundation course for the student who wishes to pursue a degree in architecture and design and allows them to explore the variety of avenues in the architectural field.

## Automotive Academy - Capstone Class

1003

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No  
**Prerequisite(s)** Automotive Technology I, II and III

This course is designed for students who wish to pursue a career in an Automotive related field. Through this course students will explore the most complex systems in modern automotive technology and gain mastery in the tasks essential for being a modern automotive technician. Students enrolled have the option to pursue internships and apprenticeships and hone their skills for their future career.

## Automotive Technology I

1002

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No  
**Prerequisite(s)** None

This course introduces students to the fundamentals of automotive technology and the skills necessary to service the modern automobiles. This course serves as the introduction class to the automotives strand and gives a solid foundation in learning the major systems involved in automobiles and learning basic preventative maintenance and light repair tasks. This course rewards Advanced Standing credit for Waukesha County Technical College.

## Automotive Technology II

1031

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No  
**Prerequisite(s)** Automotive Technology I

This course develops students' understanding of automotive technology and the skills necessary to service the modern automobile. This course develops students' understanding in specific automotive systems, specifically, the electrical, battery, charging, starting, cooling and lubrication and wheels and tires. Students will build the skill set necessary to diagnose, test, maintain and repair those systems.



**Automotive Technology III 1036****Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Automotive Technology I & II

This course develops students' understanding of automotive technology and the skills necessary to service the modern automobile. This course develops students' understanding in specific automotive systems, specifically, the steering, suspension, brakes, computer and ignition systems. Students will build the skill set necessary to diagnose, test, maintain and repair those systems.

**Building Construction I 1006****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course is an introduction to the basic building materials, components, methods, and sequences in residential construction. It is designed to give students basic, entry level exposure and skills in construction and related trades along with an overview of extensive career opportunities available. This hands-on project based course will expose students to the systems involved in residential construction including carpentry, electrical and plumbing.

**Building Construction II 1008****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Building Construction I

This advanced construction course will allow students interested in a possible career in the building trades to further their knowledge and skills. Advanced building materials, components, methods, and sequences used in residential and commercial construction are explored. Students will build upon the skills learned in Building Construction I and related trades along with an overview of extensive career opportunities available. This course will delve deeper into the mechanicals and finishing required in home construction, including practical experience with the systems involved in residential construction including carpentry, electrical, plumbing and HVAC. Emphasis is placed on safety and the proper use of both hand and power tools. Often, students may work on actual building projects both in the school and community.

**Computer Aided Design (CAD)  1032****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course will study drafting, visualizing and techniques as well as multiview representation of technical drawings. AutoCAD 2D drafting and 3D Modeling inventor software will be used to create technical drawings. Students will be introduced to the engineering design process and careers that relate to the CAD industry.

Students who complete CAD and PLTW Intro to Engineering Design (IED) may received Advanced Standing at Waukesha County Technical College.

**Digital Imaging I 1012****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course introduces students to the fundamentals of digital image creation, manipulation and publishing in a variety of formats. Digital images, whether photographic or design based, are the cornerstone of today's media rich environments. This course focuses on developing an understanding of the interaction of the basic elements of photography and digital/graphic design exploring both raster and vector based images, the basis of all computer generated images today. Students will use a variety of software (Photoshop, Illustrator, InDesign) to create, edit and publish both raster and vector based graphics. A student fee is charged for the materials used in this course.

**Digital Imaging II 1007****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging and Design I

This course will build upon the foundations gained in Digital Imaging and Design I. Students, through a personalized learning approach, will gain in depth knowledge and skills in multiple areas of the imaging fields including digital photography, illustration and page layout. Student's skills in the creation and modification of raster and vector based graphics will be refined. Multiple output and publishing solutions will be explored. A fee is charged for materials used in projects.

**Digital Imaging Seminar 1011****Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Digital Imaging and Design I & II

This semester long course is designed for those students who have successfully completed Digital Imaging and Design I and II and are interested in engaging in advanced study in the areas of digital imaging (web and multimedia), photography, graphic design, printing or related fields. Through a variety of real world applications students will apply the skills and concepts learned in previous imaging courses in the creation of images for, but not limited to, the school newspaper, yearbook, web pages, displays and community groups. The class functions as a business providing design and reproduction services to the school community. Students will also be given the opportunity to explore an independent study, project based activity furthering their knowledge of specific imaging disciplines. A fee is charged for materials used in projects.

**PLTW: Aerospace Engineering (AE) 2169A/2169B****Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Geometry  
Principles of Engineering or Physics

The major focus of this course is to expose students to the world of aeronautics, flight and engineering through the fields of aeronautics, aerospace engineering and related areas of study. Students work in teams utilizing hands-on activities, projects and problems and are exposed to various situations faced by aerospace engineers. In addition, students use 3D design software to help design solutions to proposed problems. Students design intelligent vehicles to learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community.

**PLTW: Robotics & Automation 2170A/2170B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** PLTW Principles of Engineering  
Computer Aided Design or  
PLTW Intro to Engineering Design

Robotics and Automation (previously titled Computer Integrated Manufacturing or CIM) is the study of manufacturing planning, integration, and implementation of automation and CNC machining. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. Utilizing the activity-project- problem-based (APPB) teaching and learning pedagogy, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a manufacturing system.

**PLTW: Digital Electronics 1038A/1038B****Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Geometry  
PLTW Principles of Engineering

From smartphones to appliances, digital circuits are all around us. Digital Electronics provides a foundation for students who are interested in electrical or mechanical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. DE is one of the specialized courses in the Project Lead The Way (PLTW) "Pathway to Engineering" course sequence. This course investigates engineering and engineering technologies. It looks at how the tools of mathematical and scientific theory are integrated into functioning systems. Throughout the course various forms of technology are utilized, by the students, to create systems that perform various functions. This project gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills as they apply engineering concepts. It also allows students to develop strategies to enable and direct their own learning. A materials fee is charged for this course.

**PLTW: Engineering Design and Development - Capstone Class****1039A/1039B****Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Previous completion of one of the PLTW foundation courses

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research, design and fabrication course in which students work in teams to design, develop and fabricate an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently continues to develop knowledge and skills from the foundation PLTW courses as well as mathematics, science, and technology. Since the projects on which students work can vary with student interest, the curriculum focuses on the full engineering process from problem identification through presentation of a complete solution that is modeled by a working prototype. Utilizing an activity-project-problem-based (APPB) environment, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel of experts in the various aspects of engineering and business. While progressing through the engineering design process, students will utilize community experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of design and process. A material fee is charged for this course.

**PLTW: Intro to Engineering Design****1035A/1035B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** Yes **NCAA** No**Prerequisite(s)** None

This is a foundational level course focused on engineering and engineering design. Students will be introduced to careers in the engineering profession, common approaches to engineering problem solving, and the engineering design process. Course work will be dependent on the use of a 3-D solid modeling program, in order to create original solutions to problems. Throughout the course, various forms of technology are utilized by the students, to create working solutions. The project work gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills as they apply engineering concepts. It allows students to develop strategies to enable and direct their own learning.

Students who complete PLTW Intro to Engineering Design and Computer Aided Design (CAD) may receive Advanced Standing at Waukesha County Technical College.

**PLTW: Principles of Engineering 1037A/1037B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Geometry  
Introduction to Engineering Design

This course investigates multiple engineering fields and engineering technologies. It looks at how the tools of mathematical and scientific theory are integrated into functioning systems. Throughout the course, various forms of technology are utilized by the students, to create working solutions. This project work gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills as they apply engineering concepts. It also allows students to develop strategies to enable and direct their own learning. A materials fee is charged for this course.

**Small Engines 1014****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course develops students' understanding of automotive technology and the skills necessary to service the modern automobile. This course develops students' understanding in specific automotive systems, specifically, the steering, suspension, brakes, computer and ignition systems. Students will build the skill set necessary to diagnose, test, maintain and repair those systems.

**Technology Assistant 1015****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Interest in technology and helping others. Teacher recommendation. Prior coursework in location/subject area strongly encouraged.

This program will allow students to work with, learn about and share their knowledge of technology with students and staff. This program will channel student's enthusiasm for technology to build self-esteem, develop character and allow them to gain technical skills while providing a service to students and staff. Students will be assigned to a staff member/lab to assist with the implementation, teaching and upkeep of the school's technology.

**Wood Design and Production I 1004****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This introductory level course applies modern manufacturing technology to the efficient processing of one renewable resource, wood. Through project based applications students will learn the proper care and application of industry standard tools and equipment to produce a manufactured product. This course is designed for students interested in developing manufacturing and woodworking skills for a profession or a hobby. Proper procedures in construction are realized by designing and building projects including the proper use of different joinery, gluing, sanding and finishing techniques. There is a fee for the materials used in this course.

**Wood Design and Production II 1030****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Wood Design and Production I

This advanced level course builds on the foundations learned in Woods I. Modern manufacturing technology methods will be emphasized as the student learns advanced skills in project planning and production, joinery, CNC machining and finishing techniques while producing a personal project. Advanced use of jigs and fixtures will be employed while students may participate in mass production of a consumer good. Through project based applications students will learn the proper care and application of industry standard tools and equipment to produce a manufactured product. This course is designed for students with a sincere interest in woodworking or related field as a possible profession or serious hobby. There is a fee for the materials used in this course.

**Woods Seminar 1017****Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Wood Design and Production I & II

This capstone level course builds on the foundations learned in Woods I and II. Students will select, design and build a custom woodworking project with instructor guidance that will allow the student to gain advanced knowledge and skills in the field of woodworking. Special emphasis will be placed upon craftsmanship, advanced joinery and finishing techniques. Students are expected to be able to work independently. This course may be repeated, however instructor's approval is required. There is a fee for the materials used in this course.

**Video Production 1019****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging and Design I

This course provides a unique classroom experience where students learn the fundamentals of digital storytelling and video production through the creation and editing using industry standard hardware and software. Video Production-Digital Storytelling is a hands-on course that empowers the student with the ability to create, integrate and publish video based projects with real life applications. Students will complete a variety of journalistic video projects throughout the course of the class including music videos, animations, documentaries etc.. Special emphasis will be placed upon digital storytelling and publishing to the web.

**Yearbook Publishing Design and Production**

**1018A Alt/1018B Alt**

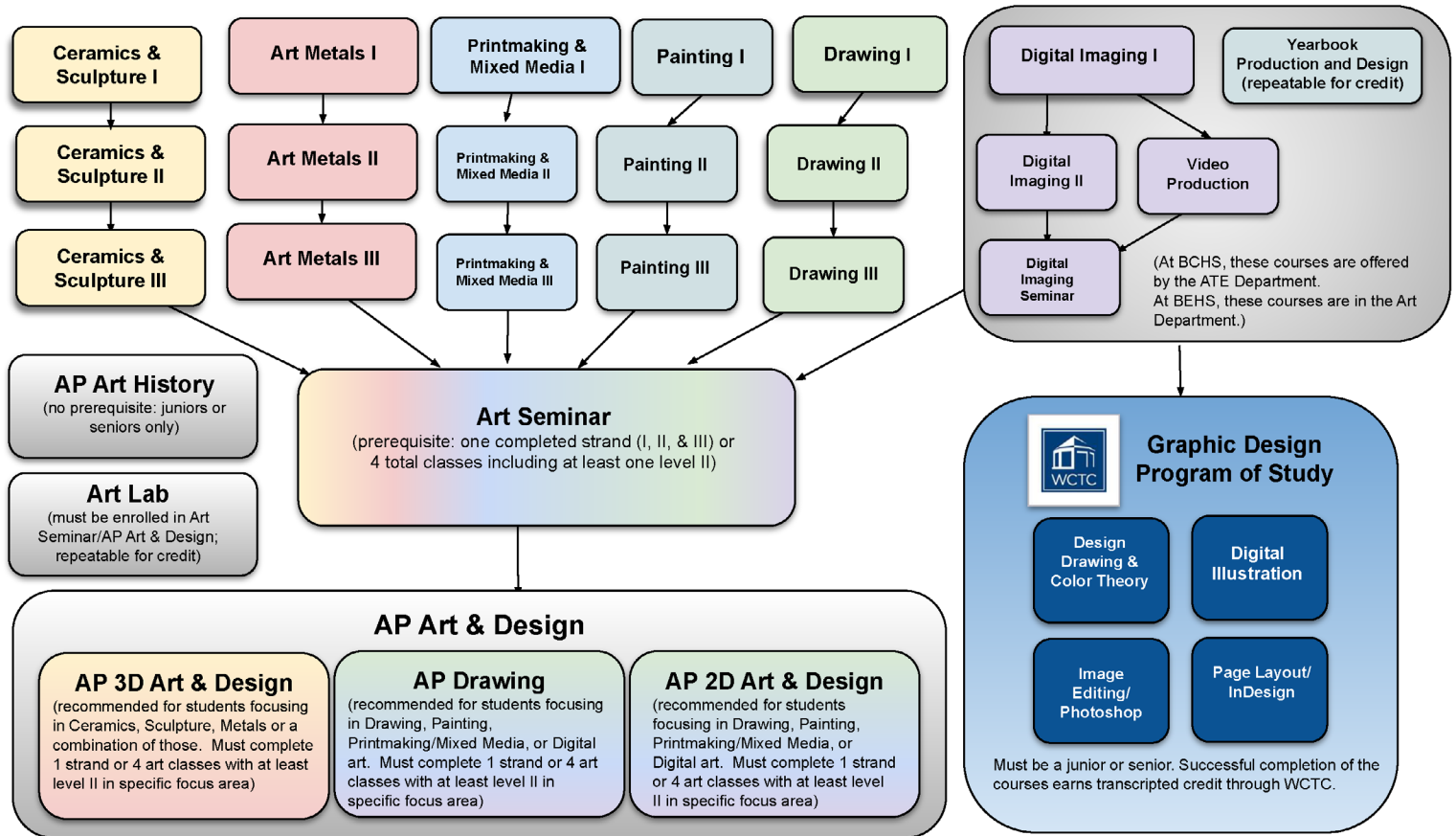
**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Digital Imaging I or Consent of Instructor

The yearbook design and production course will teach the student layout and design, photography, desktop publishing, advertising, and journalism while providing the opportunity to contribute to the production of the school yearbook. Attention is given to the integration of several curricular areas: art, through both design and photography; technology through desktop publishing, photo editing, design and layout software; social studies, through the study of the ethics of journalism; English, through the application of sound journalism and writing, and business, through the study of advertising. The students will make content and coverage decisions necessary to fulfill the functions of a yearbook (history book, record book, picture book, memory book).

# ART (Visual Arts)

Graduation Requirements: 1.0 credit of Practical/Fine Arts



**Art Lab** 1126

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Enrolled in Art Seminar or AP Art & Design during the same school year

This class will enhance the Art Seminar and AP Studio Art course experiences. It will integrate portfolio development, art gallery displays and community art. Students will have their own studio space to develop ideas and artwork.

**AP Art & Design** 1164A/1164B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** At least four art classes including a level II course and/or Art Seminar or Consent of Instructor with Portfolio Approval

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

**WEIGHTED GRADE**

AP Art History 

1160A/1160B

Grade Level 11-12 Credit/Semester 1.0 Repeatable Yes NCAA No

Prerequisite(s) At least four art classes including a level II course and/or Art Seminar or Consent of Instructor with Portfolio Approval

The AP Art History course welcomes students into the global art world as active participants, engaging with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. The study of art history invites students to discover the diversity in and connections among forms of artistic expression throughout history and from around the globe. The AP Art History course framework contains clear learning objectives that represent the art historical skills valued by art historians and higher education faculty. The framework limits the required course content to 250 works of art, aligning with college and university faculty expectations of the number and types of works students should know. This finite number of works allows teachers to present artwork in greater depth and invites students to actively engage with the works, constructing understandings of individual works and interconnections of art and art making throughout history. This approach allows students to develop a profound understanding of representative works of art from diverse cultures, including fundamental information that places these works in context and illuminates relationships among them. The course is not designed to encourage or reward students' memorization of isolated facts about works of art, artists, or cultures; rather, it invites them to actively engage with the works to develop enduring understandings of art making and artistic developments throughout history. By providing detailed information about and parameters for what is expected of students, the framework offers teachers freedom and flexibility to tailor instruction to meet the needs and interests of their students and encourages them to include additional works they value within their individual course content. Ultimately, the knowledge and skills students develop in AP Art History can qualify them for college credit and placement into subsequent college coursework in art history.

**WEIGHTED GRADE**

Art Metals I

1106

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) None

This visual art class explores the amazing material of metal. Create numerous sculptural and wearable art pieces including bracelets, rings, pendants, necklaces and /or more. Students will develop design skills and learn basic metalsmithing techniques including cutting, piercing, filing, sanding, and polishing. Advanced skills of soldering and stone setting will also be covered. You will learn the same techniques that professional jewelers use.

**Opportunities for Industry Based Certifications:**

National Institute for Metalworking Skills (NIMS)  
American Welding Society (AWS)

Art Metals II

1112

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) Art Metals I

In this course, students will continue to build on their skills from Art Metals I using cutting, piercing, filing, sanding, polishing, and finishing metal. Advanced techniques of casting, soldering, and advanced forming of metal pieces will be covered. Wearable art, sculptures, and containers will be created.

**Opportunities for Industry Based Certifications:**

National Institute for Metalworking Skills (NIMS)  
American Welding Society (AWS)

Art Metals III

1124

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) Art Metals I & II

Students in this course will continue to work and refine the technical skills used with metal. An increasing emphasis will be placed on original design, conceptual development, critical thinking, and craftsmanship, as well as the science behind a variety of metals and processes. Advanced design skills and originality will be emphasized as students will be encouraged to find their own style and area of focus in metal and design a series of pieces around that focus.

**Opportunities for Industry Based Certifications:**

National Institute for Metalworking Skills (NIMS)  
American Welding Society (AWS)

Art Seminar

1101A/1101B

Grade Level 9-12 Credit/Semester 0.5 Repeatable Yes NCAA No

Prerequisite(s) One completed strand in a medium (i.e Ceramics/ Sculpture) or 4 art classes including one Level 2 course

The purpose of this class is to provide students with an opportunity to expand and explore their knowledge of art & design media by creating original works of art from observation and their imagination. They will develop a concept, see it through a variety of processes, and evaluate the success of the final product. Students will also study the work and influences of various artists of the past and present, in addition to creating a conceptualizing their own focus and theme for a series of artwork and portfolio development.

Ceramics and Sculpture I

1102

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) None

Ceramics & Sculpture I will explore hand building methods in clay such as pinch, coil and slab construction as well as an introduction to wheel throwing. Students will investigate additive sculpture techniques such as wire figures or found-object assemblages, or subtractive sculpture techniques such as plaster, clay or foam carving. In addition, students will learn to develop various representational and abstract three-dimensional forms. By studying relevant sculptors and/or ceramicists of historical and contemporary times along with their artwork, students will learn to interpret and create meaning in art. Recommended for careers in: art, architecture, engineering, industrial design, product design, package design and many more.

**Ceramics and Sculpture II****1103****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Ceramics and Sculpture I

This advanced course is for students who are experienced in basic ceramic techniques such as pinch, coil and slab construction, throwing on the potter's wheel, and glaze application, and wish to develop a greater sense of mastery in the medium. Students will have the opportunity to work in a greater format and size, experiment with glazes and manipulate more complex forms on the potter's wheel. Students will be expected to work at a more intensive individual level while creating more imaginative forms in a more challenging environment. Further research into historical and contemporary sculpture will inspire creative work. It is an excellent course for students who want to start their portfolio for 3-D Studio Art Advanced Placement, or, for those students who wish to improve their skills. Recommended for careers in: art, architecture, engineering, industrial design, product design, package design and many more.

**Ceramics and Sculpture III****1114****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Ceramics and Sculpture I & II

Ceramics and Sculpture III is for the student with an enthusiasm for expanding their knowledge about three-dimensional processes in a personal and professional manner. Ceramics and Sculpture III will encompass more independent access to sculpture tools and techniques. Students will receive a more in-depth experience in additive and subtractive techniques. Students will develop ideas using previous knowledge and create work through the combination of techniques. The elements and principles of art and design will be established for a student to critically analyze and evaluate methods of creating artwork and establishing a series of artworks related to a common theme of their choosing. Students will leave the class with refined skills of ceramics and sculpture processes that will translate to more successful artistic ventures.

**Design Drawing & Color Theory****1170****Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Design Drawing and Color Theory will help the student develop basic freehand drawing skills, while providing a fundamental knowledge of color. Using digital art media and tools, participants will study the concepts of form: 1, 2, and 3-point perspective; proportion; line; value and texture as well as evaluate color characteristics; and examine the colors used in compositions; illustrations; and rendered still life's. In addition, students explore how color is incorporated in drawings as they develop an understanding of color models: including RGB, CMYK, Pantone, Munsell, CIE Lab, and the Web. Design Drawing and Color Theory is one required course to earn transcribed college credit through the Elmbrook Graphic Design Program of Study.

**Opportunities for Industry Based Certifications:**

Adobe

**Digital Illustration****1122****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Drawing I or Digital Imaging I  
If enrolled in Digital Illustration for the Elmbrook Graphic Design Academy, students must be in grades 11-12

This course introduces students to the fundamentals of digital illustration. Students learn to be proficient in Adobe Illustrator to create, edit and publish vector based illustrations. Emphasis will be placed on learning practical skills used in the illustration design field through the exploration of typography design, character design/comic art, packaging design, digital imagery, and image manipulation.

College credit available to 11th-12th grade students enrolled in the Elmbrook Graphic Design Academy.

**Digital Imaging I****1012****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course introduces students to the fundamentals of digital image creation, manipulation and publishing in a variety of formats. Digital images, whether photographic or design based, are the cornerstone of today's media rich environments. This course focuses on developing an understanding of the interaction of the basic elements of photography and digital/graphic design exploring both raster and vector based images, the basis of all computer generated images today. Students will use a variety of software (Photoshop, Illustrator, InDesign) to create, edit and publish both raster and vector based graphics. A student fee is charged for the materials used in this course.

**Digital Imaging II****1007****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging and Design I

This course will build upon the foundations gained in Digital Imaging and Design I. Students, through a personalized learning approach, will gain in depth knowledge and skills in multiple areas of the imaging fields including digital photography, illustration and page layout. Student's skills in the creation and modification of raster and vector based graphics will be refined. Multiple output and publishing solutions will be explored. A fee is charged for materials used in projects.

**Digital Imaging Seminar 1011**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Digital Imaging and Design I  
Digital Imaging and Design II

This semester long course is designed for those students who have successfully completed Digital Imaging and Design I and II and are interested in engaging in advanced study in the areas of digital imaging (web and multimedia), photography, graphic design, printing or related fields. Through a variety of real world applications students will apply the skills and concepts learned in previous imaging courses in the creation of images for, but not limited to, the school newspaper, yearbook, web pages, displays and community groups. The class functions as a business providing design and reproduction services to the school community. Students will also be given the opportunity to explore an independent study, project based activity furthering their knowledge of specific imaging disciplines. A fee is charged for materials used in projects.

**Drawing I 1105**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Develop your observation and drawing skills in this wonderful class. This course will focus on the fundamentals of drawing: line, shape, value, perspective, composition, proportion, spatial relationships, volume and texture and you will create amazing masterpieces in the process. Students will analyze how shadows and highlights create form and use perspective to create the illusion of space. The course will enhance students' observational skills and enable them to apply these abilities to their work. Students will become familiar with various ways in which the elements, principles of design and composition improve their creative approach and critical judgment. This course teaches all the skills you will need to continue on in your 2-dimensional high school art career.

**Drawing II 1111**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Drawing I

This course further develops the student's concepts acquired in Drawing I by focusing on composition, figurative drawing and the use of color media, such as pastel and colored pencil. Both realism and abstraction are encouraged and advanced drawing skills are applied to creative assignments.

**Drawing III 1116**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Drawing I  
Drawing II

Drawing III is for the student with a passion for expanding their drawing process in a personal and professional manner. Drawing III will encompass more independent access to technical color applications using a variety of 2-dimensional drawing tools. Students will study anatomical figures and receive a more in-depth experience to figure drawing, expanding their previous knowledge of the human form and composition. The elements and principles of art and design will be established for a student to critically analyze and evaluate methods of creating artwork and establishing a series of drawings related to a common theme of their choosing. Students will leave the class with refined skills of drawing that will translate to more successful artistic ventures.

**Image Editing/Photoshop 1173**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Learn to use Adobe Photoshop to create sophisticated graphics for print and the web. Describe, discuss and demonstrate the procedures for producing color files and documents of professional quality. Become acquainted with layers, channels, paths, masks and other techniques that are used to create the highest quality graphic elements for electronic digital documents. Image Editing/Photoshop is one required course to earn transcribed college credit through the Elmbrook Graphic Design Program of Study.

**Opportunities for Industry Based Certifications:**  
Adobe

**Page Layout/InDesign 1172**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Page Layout/InDesign introduces students to the fundamentals of page layout for publications. Students learn to be proficient in Adobe InDesign to create documents that are typographically correct and constructed according to the graphic design industry standards. Emphasis will be placed on integrating type and images, using tabs, managing layers, applying master pages and style sheets, and creating complex based tables and forms. Page Layout/InDesign is one required course to earn transcribed college credit through the Elmbrook Graphic Design Program of Study.

**Opportunities for Industry Based Certifications:**  
Adobe



**Painting I** 1107**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Develop your observation and painting skills in this wonderful class. This course will focus on the fundamentals of painting: line, shape, value, composition, proportion, spatial relationships, color and brush strokes and you will create amazing masterpieces in the process. Students will analyze how shadows and highlights create form and use perspective to create the illusion of space. The course will enhance students' observational skills and enable them to apply these abilities to their work. Students will become familiar with various ways in which the elements, principles of design and composition improve their creative approach and critical judgment. This course teaches all the skills you will need to continue on in your 2-dimensional high school art career.

**Painting II** 1108**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Painting I

Expand your artistic skills and continue to paint. Painting II class builds on the skills acquired in Painting I. Students will explore value and color as they learn to create their own strong compositions and how to look at their work with a critical eye. Color theory will help students to learn to mix and produce color variations that will add depth and excitement to their work. Research of art movements and artists will enrich the learning experience.

**Painting III** 1119**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Painting I  
Painting II

Students will refine their painting skills in this advanced level course. Students will explore various artistic styles and materials as they develop their portfolio of work. Students will strengthen their understanding of color theory, value, space and strong compositional elements and apply them to their pieces. Research of art movements and artists will enrich the learning experience. Students are encouraged to think creatively and develop their own personal style through their growth and development. Students are given more personal responsibility for the creation of their artwork with an emphasis on building conceptual and technical skills.

**Printmaking & Mixed Media I** 1109**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Printmaking and Mixed Media I introduces students to printmaking techniques such as monotype, collagraph, relief and screen-printing. Students will explore using a variety of art materials together in an artwork. Projects may incorporate painting, bookmaking, collage, printmaking, drawing, sculpture and found objects.

**Printmaking & Mixed Media II** 1110**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Printmaking & Mixed Media I

Printmaking and Mixed Media II is a more in-depth study of printmaking and art-making experiences. Printmaking is a synthesis of the material process and critical analysis of printmaking and design. The course investigates what it means to work in mixed media and where it is used in society at large. Recommended for careers in: advertising, fashion design, graphic design, package design, textiles, illustration and many more.

**Printmaking & Mixed Media III** 1121**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Printmaking & Mixed Media I  
Printmaking & Mixed Media II

Printmaking and Mixed Media III is for the student with an enthusiasm for expanding their knowledge about the printmaking process in a personal and professional manner. Printmaking and Mixed Media III will encompass more independent access to printmaking tools and mixed media techniques. Students will receive a more in-depth experience in intaglio, relief, monotype, and lithography processes. Students will develop ideas using mixed media techniques and expand on their previous knowledge through the combination of techniques. The elements and principles of art and design will be established for a student to critically analyze and evaluate methods of creating artwork and establishing a series of artworks related to a common theme of their choosing. Students will leave the class with refined skills of printmaking and mixed media processes that will translate to more successful artistic ventures. Recommended for careers in: advertising, fashion design, graphic design, package design, textiles, illustration and many more.

**Video Production** 1019**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging & Design I

This course provides a unique classroom experience where students learn the fundamentals of digital storytelling and video production through the creation and editing using industry standard hardware and software. Video Production-Digital Storytelling is a hands-on course that empowers the student with the ability to create, integrate and publish video based projects with real life applications. Students will complete a variety of journalistic video projects throughout the course of the class including music videos, animations, documentaries etc. Special emphasis will be placed upon digital storytelling and publishing to the web.

**Yearbook Publishing  
Design & Production**

**1118A Alt/1118B Alt**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Digital Imaging & Design I

The yearbook design and production course will teach the student layout and design, photography, desktop publishing, advertising, and journalism while providing the opportunity to contribute to the production of the school yearbook. Attention is given to the integration of several curricular areas: art, through both design and photography; technology through desktop publishing, photo editing, design and layout software; social studies, through the study of the ethics of journalism; English, through the application of sound journalism and writing, and business, through the study of advertising. The students will make content and coverage decisions necessary to fulfill the functions of a yearbook (history book, record book, picture book, memory book).

**Graduation Requirements:** Personal Finance or Financial Management & Investing, 0.5 credit  
Business courses can apply toward the 1.0 credit Practical/Fine Arts requirement.

## Business & Society 7823

<b>Grade Level</b>	12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	Yes
<b>Prerequisite(s)</b>	Successful prior completion of any LAUNCH strand						

LAUNCH Business 2.0: Students will engage in profession based experiences in a dynamic business like setting. Students will apply business strategy to projects that require collaborative teams to solve problems and communicate results to business and industry partners. Business 2.0 students will gain skills in ethics, stakeholder management, project management and global cultural awareness that will prepare them for 21st-century workplaces.

## Business Law 1201

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

Gain an understanding of how Business Law relates to everyday life and business. Exciting units include ethics, property laws, employment laws, contracts, criminal and civil law, consumer law, insurance laws, and more. Students will also participate in mock trials where they will play the roles of attorneys and jury members in real world cases.

## Business Leadership (Level 1) 1234A/1234B

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Must have taken, be currently enrolled in, or be scheduled to take (in the academic year) one of the following:						

Entrepreneurship, Business Management, Introduction to Marketing, Financial Management & Investing, Sports & Entertainment Marketing, Business Law, or Accounting

Students enrolled in Business Leadership will run the high school coffee shop (or another student-run enterprise). Students enrolled in Business Leadership will be able to choose from four industry specific areas (Marketing, Management, Hospitality, Finance). Within their chosen industry, students will find solutions to business scenarios, complete projects such as business plans or operations research, and apply knowledge from working in a business environment. Business Leadership requires students to be self-motivated and independent.

## Business Management 1204

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

Students will learn management and leadership skills that span across all functions of a business. Current business topics and events will play a role in learning how the role of a manager continues to evolve. In this class you will learn how to plan, organize and implement various management strategies and techniques to be successful in business. Technology will be used throughout the course to adequately prepare students for careers in the business world.

## Business Strategy 7802

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

*This course is only available through the LAUNCH Business Analytics or Global Business Strands.*

Students will engage in profession based experiences in a dynamic business like setting. Students will apply business strategy to projects that require collaborative teams to solve problems and communicate results to business and industry partners. Business Strategy students will gain skills in innovation, entrepreneurship & sales, project management, teamwork and data analysis that will prepare them for 21st century workplaces.

## College Accounting 1230A/1230B

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

College Accounting is a course designed for students to develop an understanding of basic accounting concepts and account for the transactions of a small business. Students will learn to work through the entire accounting cycle.

## Entrepreneurship 1203

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

If you are one of the seventy percent of all high school students that say they want to start their own business, this is the class for you! Develop the skills needed to effectively organize, develop, create, and manage your own business. You will apply your marketing and entrepreneurial skills as you go step-by-step through the entire process of developing a written business plan for the business of your choice. Take a risk and enroll in this class.

## Introduction to Accounting 1205

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

This is an important college preparatory course for students planning to major in any area of business. Accounting is the key to opening the door to the business world and that is why accounting is often called the "language of business." In addition, accounting is essential in many government occupations as well as being useful in comprehending one's personal finances. Understanding how accounting data is accumulated through the double-entry procedure and how to use such data are important outcomes of the course. Accounting careers and becoming a CPA will also be discussed.

**Introduction to Business** 1206**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Students will learn a variety of business topics so that they have an understanding of entrepreneurship, marketing, management, ethics, international business, basic economics, business law, business finance, and more. Technology will be used throughout the course to adequately prepare students for careers in the business world.

**Introduction to Marketing** 1212**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Did you know the average person sees 5,000 ads per day? Do you know why? Students in Introduction to Marketing will gain a basic understanding of what marketing is, as well as selling, pricing, advertising and public relations. Students will learn these concepts through a variety of high-energy methods such as projects, videos, activities, and traditional classroom instruction. Introduction to Marketing gives students the unique ability to exercise their teamwork, creativity and business skills.

**Keyboarding & Digital Technologies** 1207**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Myth: students can type because they are on the computer all of the time. Not true! The touch method of Keyboarding is a skill learned through classroom practice and all students need this skill to save time and prepare for high school, college, and beyond. Keyboarding is the most underrated skill in education and this class will help you gain a skill so you can increase your speed and accuracy. Students will also gain an understanding of digital citizenship and communication and learn about collaboration tools that will keep them on the forefront of technology. If your student is like most and keys while using a few fingers and looks at the key this class is a must.

**Financial Management & Investing**  1211**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Topics include: budgeting, use of credit, automobile and consumer durables, insurance, the housing decision, taxes, retirement planning, estate transfer and investments. Each subject is analyzed within the context of a comprehensive framework of personal financial planning. This course can be taken for dual credit with UW-Oshkosh as a general business elective for Junior and Senior students only. This course may be taken with or without CAPP credit. This course meets the graduation requirement for Financial Literacy required for all students.

**Notetaking and Study Skills** 1208**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Want to study more effectively? Want to learn how to personalize your learning? Note Taking and Study Skills will help you take effective notes in all your classes as well as prepare you for college. Study skills such as time management, reading comprehension, and test taking strategies will help you to succeed in all courses. This class will help you now and prepare you for the future!

**Personal Finance** 1209**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Do you plan to live on your own? Will you apply for a credit card or a car loan? Will you use a savings and checking account? Financial literacy among teens has been recognized as a necessity. Become financially literate by creating a budget, studying long and short term savings options, using credit wisely, exploring housing options, making wise automobile choices, buying insurance, and filing your personal income taxes. This is recommended as a MUST take course. This course meets the graduation requirement for Financial Literacy required for all students.

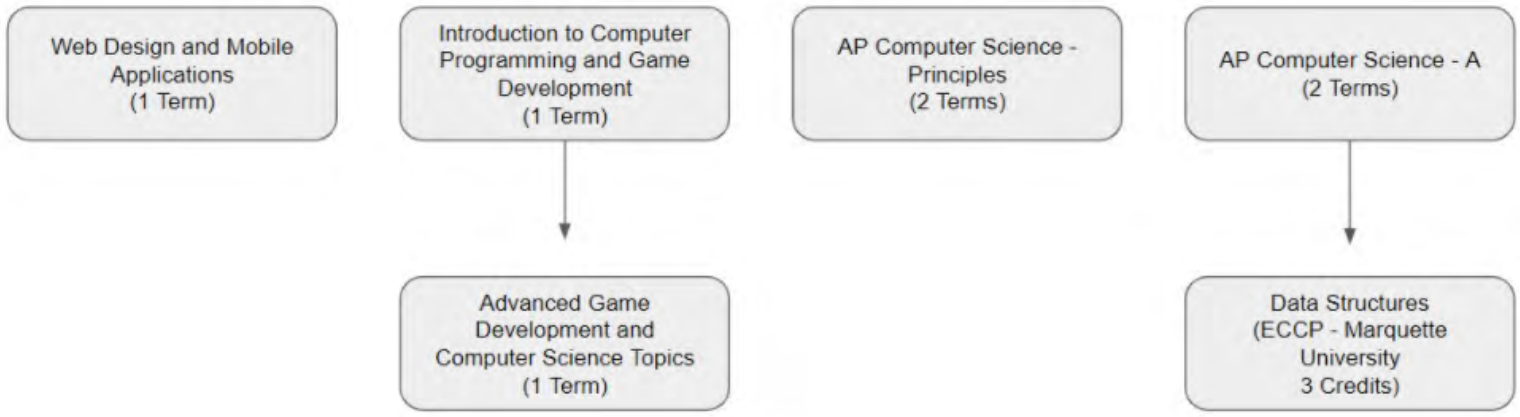
**Software Applications** 1231**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Software Applications assists students in acquiring the knowledge and ability to use computers for personal and business applications. This course will introduce students to advanced features of word processing, spreadsheet, database and desktop presentation software using Microsoft Office 2016. The main emphasis will be using hands-on activities to become proficient in Word, Excel, Access and PowerPoint with corresponding instruction on the Internet.

**Sports & Entertainment Marketing** 1210**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This hands on course allows students the opportunity to apply the principles of marketing through the Sports & Entertainment Industry. Students will create a marketing plan including ticket pricing & promotions, merchandising, product design, event marketing, corporate sponsorships, advertising, and more. Career opportunities as they relate to the Sports & Entertainment Industry will be discussed. Enrichment activities for this course include a field trip to a professional sports facility such as Miller Park or Lambeau Field.

# COMPUTER SCIENCE



## Advanced Game Development and Computer Science Topics 1242

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Introduction to Computer Science & Game Development						

In this course, students will incorporate object-oriented computer programming techniques and advanced topics in game development to multiple original computer games. In addition, students will have the opportunity to explore a computer science topic of their choice through the development and completion of an original project. Students will be responsible for defining the scope of the project, identifying deliverables, managing the project, and presenting their findings and solutions.

## AP Computer Science A 1260A/1260B

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Algebra II (concurrent) or consent of instructor						

In this course, students will learn to write computer programs in the JAVA programming language. The course will provide students with a conceptual background in computing and computer science. Major emphasis will be placed on sequential processing, algorithm design, various testing methods, logical reasoning and problem solving techniques. The course follows the syllabus recommended by the College Board to qualify a student for the Advanced Placement Computer Science A examination.

**WEIGHTED GRADE**

## AP Computer Science Principles 1261

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

The Advanced Placement Computer Science Principles course provides students with the opportunity to develop computational thinking skills, an understanding of the real-world impact of computing, and programming literacy. The course exposes students to the breadth and relevance of computer science across many fields of study that incorporate computer science knowledge. A strong focus on creativity as it applies to the creation of computational artifacts allows a broader range of students to discover where computer science could fit in their lives, and it prepares more students for success in computer science and other related STEM fields.

**WEIGHTED GRADE**

## Introduction to Computer Programming and Game Development 1241

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

In this course, students will learn the basics of computer programming and game development. Major emphasis will be placed on logical reasoning, elementary programming techniques, basics of game development, and problem solving skills. Students will design and write several computer programs incorporating computer science topics such as storytelling, graphics, audio, data storage, decision structures, looping. Object design, and the interaction of objects.

**Python for Data Science** 7829**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** None

*This course is only available through the LAUNCH Data Science & Intelligence for Careers Strand.*

This course introduces core features of the Python programming language, while demonstrating and utilizing fundamental concepts in computer science. It provides an in-depth discussion of data representation strategies, showing how data structures are implemented in Python along with demonstrating tools for data science and software engineering. While working on data analysis problems and data manipulation tasks, students will employ various programming paradigms, including functional programming, object-oriented programming, and data stream processing. Special attention is paid to the standard Python library and packages for analytics and modeling (Pandas, Numpy, Matplotlib, etc.).

**Student Technology Team** 1243A/1243B**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Interest in technology, Interest in supporting others

This program allows students to work closely with the district technology department and provide technology support for their fellow students and staff within the high schools. As a member of the technology team, students will learn how to repair Chromebooks, troubleshoot basic classroom technology needs, develop customer service skills and build on their individual technology skills. Technology teams are based out of each high school library and work directly with the library assistants.

**Web Design and Mobile Applications** 1240**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course will introduce students to concepts and design techniques for constructing professional looking Web pages. Students will use a combination of HTML programming, web page design, graphic manipulation, and audio-visual editing software, to create multiple Web Pages. Students will also explore the topic of mobile applications. They will be responsible for the research, design, problem solving, and coding required to create original mobile applications.

**Graduation Requirements:** 4.0 credits including English 9 or Honors English 9 (1 credit), English 10 or Honors English 10 (1 credit), English 11 or AP Language & Composition (1 credit), 2 English Electives (0.5 credit each)

## AP English Language and Composition

1361A/1361B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 10

This course will cultivate the reading and writing skills students need for college success while preparing them for the AP Language and Composition test. The course challenges students to become curious, critical readers of diverse texts, and flexible, reflective writers addressing diverse audiences and purposes. Through analysis of nonfiction and fiction genres and the composition of research-based essays, this course will deepen and expand students' understanding of how written language functions rhetorically. This course is recommended for junior and senior students.

**WEIGHTED GRADE**

## AP English Literature and Composition

1360A/1360B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 10  
English 11

**Strongly Recommended** AP English Language and Composition

In addition to the study of challenging literature, composition is an integral part of this rigorous, college-level course. Short-term writing goals include understanding the skills and strategies necessary to score well on the AP test. Long-term goals including enabling students to learn at a rate commensurate with their ability; to deal with material that intellectually mature students find engaging; to refine reading and writing skills important for success; not only in college but also in the professional world; to cultivate habits of reading, writing, and thinking that characterized life-long learning and enjoyment.

**WEIGHTED GRADE**

## Creative Writing

1315

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
CAPP Credit Prerequisite: Writing for College

In Creative Writing, students learn how to communicate personal experience and observation through various genres, possibly including memoirs, short stories, children's stories, and poetry. Within each genre, students will evaluate both their own writing and the writing of their classmates. Grammar, mechanics, and revisions are stressed for clear, concise, effective writing. This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

## Drama as Literature

1316

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

Drama as Literature is a study of dramatic literature from the early Greek and Roman inventors to the recent European and American dramatists. Possible readings include Antigone, Medea, Everyman, and Othello; additionally, modern plays by Tennessee Williams, Arthur Miller, Henrik Ibsen, Anton Chekhov, and an American musical may be explored. Written assignments delve into specific plays regarding characterization, specific dialogue, author's theme or purpose, and historical relevance. Students will be asked to act in class.

## Dystopian and Utopian Literature

1362

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

Mankind has always sought after ways to organize itself into mutually beneficial groups. Some brave souls have proposed visions for perfectly organized societies. More recently, writers have taken a somewhat darker view, and portrayed societies that are failed utopias, or just altogether dysfunctional. Studying these works can teach us much about what we value in a society and in each other. This course will include the exploration of essays, poems, short stories, non-fiction texts, the novel as well as music and art. Students will be involved in active, hands-on learning that will be aimed at analyzing the role of individuals, groups, and rules in society. By immersing students in numerous different written genres, students will be able to analyze and synthesize the concepts necessary for them to ultimately create a much deeper understanding of their role as a citizen and member of society.

## English 9

1302A/1302B

**Grade Level** 9 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

In English 9, listening, speaking, and writing skills are stressed, including vocabulary development, and grammar skills. Literature is studied either by genre or theme to include the novel, short story, drama, and nonfiction. Author studies may include Shakespeare, Harper Lee, and a variety of contemporary works.

**Honors English 9** **1303A/1303B**

**Grade Level** 9 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Teacher Recommendation

English 9 Honors is a two-term course offered to grade 9. It is designed to include the study of literature, grammar, vocabulary, and writing. English 9 Honors classes spend more time on abstract concepts and literary analyses and considerably less time on basic comprehension than English 9 regular class. A progressively rigorous approach to grammar, vocabulary, and speaking & listening skills are embedded into each of the units. Selections could include novels (Black Boy, All Quiet on the Western Front, To Kill a Mockingbird and A Tale of Two Cities), short stories, poetry, drama (Romeo and Juliet), and a number of non-fiction texts.

**English 10** **1330A/1330B**

**Grade Level** 10 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9 or Honors English 9

Students will have the opportunity to read a variety of fiction and nonfiction texts and will be encouraged to connect their reading to themselves, other content discipline areas, other fiction and nonfiction texts, and ultimately to their larger global community. In addition, students will learn a variety of different essay modes including argumentative, persuasive, analytical, reader response, narrative, expository, and research writing.

**Honors English 10** **1331A/1331B**

**Grade Level** 10 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9 or Honors English 9

Honors students will participate in more in-depth study of rhetorical analysis and argumentation. They will be expected to look at all texts with a critical lens focusing on an author's choice of language to determine the effectiveness, relevance, and reasoning of the argument. Honors students will concentrate on using their in-depth study of rhetorical analysis to produce well-developed written and verbal arguments, and students will move through the curriculum at a more rigorous pace while focusing on more complex text and writing more in-depth critical analysis of them.

**English 11** **1333A/1333B**

**Grade Level** 11 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

In this course, students will read, respond to, and reflect upon rigorous literature and nonfiction texts as they explore various facets of American society, including the concept of the American Dream, and issues surrounding our understandings of freedom and democracy. Students will also read literature framing both past and present thinking regarding our technological future. Students will engage in various types of composition including literary analysis, expository writings, and a research project.

**Literature: Giants in Time** **1363**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

If someone called you a Delilah or a Doubting Thomas, would you understand the reference? Do you know what is implied when someone mentions a “face that launched a thousand ships”? Is being compared to Zeus a compliment or an insult?

This course examines some of the major allusions in literature that every high school senior should be able to access and understand. The allusions mainly come from three sources: classical mythology, the Bible, and Shakespeare, although other sources (history and art) may be examined. The literature and events studied in this class will broaden your knowledge of classic and popular culture in a way that will aid your future reading, enhance your experience of storytelling in other media, and will generally help you come across as a more intelligent person in your interpersonal encounters in life.

**Literature in Film**  **1365**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
CAPP Credit Prerequisite: Writing for College

Students gain appreciation and understanding of literature through examining and analyzing film. Literature in Film is designed to fuse the study of literary texts and film techniques. The course will help students develop analytical skills; it will also provide creative outlets for students to express their interpretations and insights. As an integral part of the course, students complete argumentative, analytical, comparative, and creative writings. This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

**Oral Interpretation, Acting & Directing** **1324**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** English 10

Oral Interpretation, Acting, and Directing is designed to enable the students to portray ideas and feelings through the use of the voice, body, and language and to understand some of the mechanics of play production, as well as to produce plays in class. Activities include mimes, improvisation, comedy sports, monologues, theater critiques, scene work, and field trip to a professional theater (optional).  
\*This is not a literature elective.



**Public Speaking**  **1325**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Public Speaking students will gain experience with the principles and application of effective communication for diverse audiences in a variety of settings in preparation for post-secondary education and the workplace. Topics may include, but are not limited to, the following: informational, persuasive, demonstrative and impromptu speeches, group dynamics, podcasting, presentation technology, job interviews, and interpersonal communication skills. This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

**Real Lives: Memoir/Autobiography** **1336**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Students in this course will learn to identify personal and author claims of truth in autobiographies, biographies, and memoirs and evaluate the merits of the classic and contemporary stories of the lives of the famous and not so famous. Students will come to appreciate the impact of life stories on the individual reader and the role they play in shaping our society. Students will also examine how technology has changed the ways we chronicle our lives. As an integral part of the course, students complete argumentative, analytical, comparative, and creative writings.

**Senior Literature Seminar** **1367**

**Grade Level** 12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
English 11 or AP Literature & Composition or AP Language and Composition

Designed exclusively for 12th grade students looking to exercise more control over the literature they read in class, Senior Literature Seminar is built around the popular model of literature circles and book clubs. Select, read, discuss, analyze and present the books you want to read while you work collaboratively with other members of the class. Students will maintain a portfolio that documents reflections, thoughts and applications of literary analysis, character studies and examination of plot structure. As an integral part of the course, students complete argumentative, analytical, comparative, and creative writings.

**Speech Communication** **1332**

**Grade Level** 9-10 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course offers students the tools necessary to communicate effectively in their high school coursework and in their daily lives. Although the development of speaking and listening skills is the main thrust of the course, students will be asked to exhibit communication skills in a variety of ways throughout the term. Skills targeted may include but are not limited to interpersonal communication strategies, effective listening, small group dynamics, informative speaking, persuasive speaking, and appropriate use of presentation technology.

**Stagecraft: Introduction to Theater** **1327**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Stagecraft emphasizes learning about and executing the technical aspects of the theater. The course seeks to develop the student's understanding of established standards in the technical areas of play production. Using hands-on learning activities, students will design a set: learn scenic painting techniques, sound and lighting, and design costume, plots and properties. **\*Not H.S. Diploma approved as an English course. Students earn Fine Arts credit for this course.**

**The Graphic Novel** **1364**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Students will understand and appreciate the graphic novel as both a rich source of literature and a cutting-edge graphic art form that reflects and drives the modern human condition. Students will investigate the convergence of literacy and creativity as they explore the social development and personal identity of characters.

**Writing for College**  **1326**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Writing for college, primarily for the college-bound student, is designed to polish the skills necessary for written communication, to develop a proficiency in analyzing and organizing ideas and data, to help students achieve a sense of tone and style, improve sentence and paragraph structure, to build vocabulary, and develop skills to research and document sources. A research paper is a course requirement. This course may be taken with or without dual credit with UW-Oshkosh (CAPP). Dual credit with UW-Oshkosh (CAPP) for Writing for College is a prerequisite for students pursuing dual credit with UW-Oshkosh (CAPP) for Literature in Film and/or Creative Writing. While exceptions can be made through an approval process facilitated by the course instructor and UW-Oshkosh, completing this prerequisite is encouraged.

**Writing for Publication** **1319**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Students learn to write for newspapers and news magazines. There are extensive writing assignments in each of three major areas: news, feature and opinion. Sports and Photojournalism units may also be incorporated, if time allows. Each of these areas emphasizes style for journalists, interviewing techniques, investigative methods, critical thinking and evaluation of information, ethics, and law of libel. Students will learn to write both objectively and subjectively and make decisions on when each is appropriate. Some basics in newspaper design are taught: however, the course is primarily a writing workshop. Students have an opportunity to work on the school newspaper; however, the school paper is considered a separate co-curricular activity. Active participation is expected during the class discussion. **\*This course can fulfill writing requirement.**

**Writing for Research** **7801**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9/Honors English 9  
English 10/Honors English 10  
English 11

*This course is only available through the LAUNCH Engineering Foundations, Global Business, Emerging Trends in IT, and Media Solutions strands, as the English component for students who have already completed English 11.*

The course is intended to provide students in applicable LAUNCH strands with the opportunity to learn about and develop the kinds of research and communication skills that are essential in professional settings. They will learn how to conduct efficient and effective research, how to use research to answer real world questions, and how to present that information to different types of audiences and using different presentation modes.

# EXPERIENTIAL LEARNING

## Career & Employment Opportunities (CEO) - Internship

2301

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** By application only. Students must be actively employed prior to the start of the term.

Learn career and life skills while you earn! Students can engage in this personalized learning, seminar course to further support the development of professional knowledge and skills which can then be applied to a real world work experience. The course affords meaningful learning through two avenues: 1) Independent Study/Personal Reflection: choosing from and then researching various career-based learning topics to a) explore self, academic learning, work, and life connections and b) gain deeper insight into and knowledge of relevant employment matters in order to further develop pivotal life skills; and, 2) Guest Instructors: learning directly from business and industry guest instructors' expertise as they present on various topics during a once a month seminar (e.g., professionalism, entrepreneurship, etc.). The course will also afford each student with opportunities to utilize technology to capture and demonstrate his/her personal growth that has occurred throughout the experience. \*NOTES: 1) The course will meet weekly for one block during each term or as scheduled; 2) Students are required to attend seminars with guest instructors. One seminar will most likely be held once per month [September, October, November, February, March, and April (dates/times to be announced)]; 3) The student a) will seek out his/her employment, b) must be employed prior to the start of the term, and c) must work a minimum of 20 hours per week. 4) The course is graded Pass/Fail. Enrollment in C.E.O. is limited.

## Mentorship

2300

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** By application only

Mentorship is an opportunity for students to investigate a career interest through coursework and on the job visitations. Students will be matched on an individual basis with an adult mentor working in the area of career interest to the student. Expectations will be developed by the student, mentor, and teacher to structure and guide the experience. This experience will require approximately 40 hours in a Community-setting outside school and be unpaid. This course is for juniors, and seniors who are highly motivated, self-directed and who have shown exceptional ability and interest in a particular career area. This half-credit course is graded pass/fail.

## Project Pursuit

8400

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** By application only. Students must submit an application for approval the semester prior to working on their "Pursuit". Once approval is granted, the time will be scheduled.

This course provides students the opportunity to develop and implement an independent study in an area of interest.

## Youth Apprenticeship

2303

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** By application only

Youth Apprenticeship is the formalized and structured work-based program offered. Visit this [website](#) to view program areas. The youth apprenticeship program coordinates academic education in the high school with occupational instruction and paid work-based learning. Training in the workplace is by skilled mentors and is based on statewide competency standards developed by the WI Department of Workforce Development. Upon completion students can earn a Certificate of Occupational Proficiency. The course is graded Pass/Fail.

# FAMILY & CONSUMER SCIENCES

Course Offerings

**Graduation Requirements:** Family & Consumer Sciences courses can apply toward the 1.0 credit Practical/Fine Arts requirement.

## Fashion Analysis 1503

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

**Strongly Recommended** Introduction to Elements of Design

Fashion, a multi-billion dollar industry, offers a wide range of career paths for you to explore. While exploring, you will develop an appreciation for how our economy and world events impact the garment industry and current fashions. Through creative projects, you will:

- Evaluate garments using the elements of design (line, color, texture and shape)
- Demonstrate how body type and face shape can be enhanced through garment selection
- Examine how you can project personality through clothing
- Evaluate (investigate) the relationship between the elements, construction and price
- See how the history of fashion has influenced today's styles
- Explore career paths through professional speakers and our Michigan Avenue Trip in Chicago!

## Introduction to Elements of Design 1502

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

You have a lifetime of spending ahead of you, so why not back your purchases with some useful knowledge. Try to imagine all the money you will spend on clothing and home goods for you and your future family. Our goal is to empower you with the understanding on how line, color, texture and shape play specific roles in meeting your needs. We center our focus on fashion and personal living space. You will also create a professional portfolio to practice the skills related to presenting your work. This hands-on course is a suggested course for classes in the Family and Consumer Science department. It will give you a strong foundation for Fashion Analysis or Principles of Interior Design.

## Principles of Interior Design 1504

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** 11th-12th grade standing or Introduction to Elements of Design

This course is an introduction to the world of interior design. It is an opportunity to explore profitable career paths for the creative person in a growing industry. You will examine the needs and demands of living space for people of all ages, health conditions, preferences and to use the elements and principles of design to meet your client's needs. Our capstone project provides students the opportunity to design a floor plan for a client and to create a presentation board to demonstrate what their new home could look like. You select the furniture, arrange the items, create a color scheme that includes walls, window treatments, flooring and all items. This hands on course applies the elements and principles of design.

Graduation Requirements: Health Education, 0.5 credit

## Exercise Science

2003

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Biology  
Physical Education 9

This is an elective course designed for students considering careers in physical or occupational therapy, sports medicine, nursing, athletic training, coaching, physical education, recreation, recreational therapy, and corporate fitness. The course will include in-classroom lectures as well laboratories dedicated to applying the practical skills and research the effects of exercise and physical activity on human performance. At the conclusion of this course, students will know the major bones of the skeletal system, the structure and function of major muscles, overall nutritional and metabolic impact of exercise and training, and the effects of exercise on the nervous and cardiorespiratory systems.

## Health Education

1701

**Grade Level** 9-10 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Health Education is required for graduation. Students will be engaged in the following units of study: Nutrition, Mental Illness and Suicide Prevention, Wellness and Stress Management, Teaching Tolerance-Bullying and Cyberbullying, Alcohol and Other Drugs, Emergency Situations and Human Growth and Development. Students will demonstrate knowledge and skills through presentations, skits, projects, and student generated assessments. All components of the Human Growth and Development curriculum are the School Board approved curriculum.

LAUNCH is a junior/senior program that connects a student's academic knowledge to real world problems and projects through profession-based experiences in a dynamic, business-like setting. Courses meet daily and may occur off-campus. Students apply their learning through projects supported by area business partners that require collaborative teams to solve problems, communicate with stakeholders, and implement solutions. Transportation options are available for Elmbrook students attending an Elmbrook-based strand occurring outside of their home school. LAUNCH-specific course descriptions are below. Additional information may be found at [launch.yourcapsnetwork.org](http://launch.yourcapsnetwork.org).

## PROGRAM BASICS:

All LAUNCH strands are 1 block for the entire school year, with the exception of Business & Society which is a single-semester offering. Students will travel between Brookfield Central, Brookfield East, Wauwatosa East, Wauwatosa West, and LAUNCH off site offices.

## SCHEDULING INSTRUCTIONS:

Enter the word "LAUNCH" in the Non-Credit area of the Infinite Campus Academic Planner. Students should select a strand from the drop-down menu, making sure they select the appropriate grade level for their 2022-23 academic year. This will automatically add the necessary courses for your strand choice into the planner. The courses will be locked, but if students want to remove their selection or make a different strand selection, they can scroll down to the Non-Credit category and click on the X to remove the strand in its entirety. Additional instructions can be found [HERE](#).

### Advanced Manufacturing Technologies 7800AMT

**Grade Level** 11-12    **Credits** 3    **Location** Wauwatosa West

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Future Makers Capstone	Tech Ed	1
AP Computer Science Principles	Computer Science	1
Mentorship	Experiential Learning	1

### Business Analytics 7800BA

**Grade Level** 11-12    **Credits** 3    **Location** Concurrency

**Prerequisite(s)** Algebra II

**Strongly Recommended** Functions and Trigonometry

Course Name	Credit Type	Credits
AP Statistics	Mathematics	1
Business Strategy	Business	1
Mentorship	Experiential Learning	1

### Data Science & Intelligence for Careers 7800DS

**Grade Level** 11-12    **Credits** 3    **Location** Concurrency

**Prerequisite(s)** Honors Precalculus or Precalculus & Trigonometry

Course Name	Credit Type	Credits
Math for Data Science	Mathematics	1
Python for Data Science	Elective	1
Mentorship	Experiential Learning	1

### Emerging Trends in IT - Grade 11 7800IT-11

**Grade Level** 11    **Credits** 3    **Location** Brookfield Central

**Prerequisite(s)** None

Course Name	Credit Type	Credits
English 11	English	1
Project Pursuit - Trends in IT		1
Mentorship	Experiential Learning	1

### Emerging Trends in IT - Grade 12 7800IT-12

**Grade Level** 12    **Credits** 3    **Location** Brookfield Central

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
Project Pursuit - Trends in IT		1
Mentorship	Experiential Learning	1

### Engineering Foundations - Grade 11 7800EF-11

**Grade Level** 11    **Credits** 3    **Location** Brookfield Central

**Prerequisite(s)** None

Course Name	Credit Type	Credits
English 11	English	1
PLTW Engineering Design and Development	Applied Tech	1
Mentorship	Experiential Learning	1

### Engineering Foundations - Grade 12 7800EF-12

**Grade Level** 12    **Credits** 3    **Location** Brookfield Central

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
PLTW Engineering Design and Development	Applied Tech	1
Mentorship	Experiential Learning	1

**Foundations of Body Systems and Disease 7800FBS**

<b>Grade Level</b>	11-12	<b>Credits</b>	3	<b>Location</b>	Wauwatosa West
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
Anatomy and Physiology		Science		1	
Health and Disease		Science		1	
Mentorship		Experiential Learning		1	

**Future Teachers 7800FT**

<b>Grade Level</b>	11-12	<b>Credits</b>	3	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
AP Psychology		Social Studies		1	
Educational Inquiry 1: Critical Perspectives on Education		Elective		1	
Mentorship		Experiential Learning		1	

**Future Teachers 2.0 7800FT2**

<b>Grade Level</b>	12	<b>Credits</b>	2.75	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
Educational Psychology (ECCP)		Elective		1	
Introduction to Children's and Young Adult Literature (UWM)		Elective		0.75	
Mentorship		Experiential Learning		1	

**Global Business - Grade 11 7800GB-11**

<b>Grade Level</b>	11	<b>Credits</b>	3	<b>Location</b>	Concurrency
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
English 11 (Grade 11)		English		1	
Business Strategy		Business		1	
Mentorship		Experiential Learning		1	

**Global Business - Grade 12 7800GB-12**

<b>Grade Level</b>	12	<b>Credits</b>	3	<b>Location</b>	Concurrency
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
Writing for Research		English		1	
Business Strategy		Business		1	
Mentorship		Experiential Learning		1	

**Healthcare Solutions 7800HS**

<b>Grade Level</b>	11-12	<b>Credits</b>	3	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
PLTW: Medical Interventions		Science		1	
Culture of Healthcare		Science Elective		1	
Mentorship		Experiential Learning		1	

**Hospitality Innovation 7800HI**

<b>Grade Level</b>	11-12	<b>Credits</b>	2	<b>Location</b>	Wauwatosa East
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
Advanced Marketing		Elective		1	
International Cuisine		Family/Consumer Ed		1	
Mentorship		Experiential Learning		1	

**Law and Public Policy 7800LPP**

<b>Grade Level</b>	11-12	<b>Credits</b>	3	<b>Location</b>	Concurrency
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
Current Issues		Social Studies		0.5	
Crime, Society and the Law		Social Studies		0.5	
AP Language and Composition		English		1	
Mentorship		Experiential Learning		1	

**Media Solutions - Grade 11 7800MS-11**

<b>Grade Level</b>	11	<b>Credits</b>	3	<b>Location</b>	Brookfield Central
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
English 11		English		1	
Digital Imaging Seminar		Applied Tech or Art		1	
Mentorship		Experiential Learning		1	

**Media Solutions - Grade 12 7800MS-12**

<b>Grade Level</b>	12	<b>Credits</b>	3	<b>Location</b>	Brookfield Central
<b>Prerequisite(s)</b> None					
<b>Course Name</b>		<b>Credit Type</b>		<b>Credits</b>	
Writing for Research		English		1	
Digital Imaging Seminar		Applied Tech or Art		1	
Mentorship		Experiential Learning		1	

**Medicine and Healthcare 7800MH**

**Grade Level** 11-12 **Credits** 3 **Location** Brookfield East

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Medical Terminology	Science Elective	1
Culture of Healthcare	Science Elective	1
Mentorship	Experiential Learning	1

**Skilled Building Trades 7800SB**

**Grade Level** 11-12 **Credits** 3 **Location** Wauwatosa East

**Prerequisite(s)** Geometry

Course Name	Credit Type	Credits
Light Building Construction	Tech Ed	1
Math for Skilled Trades	Mathematics	1
Mentorship	Experiential Learning	1



# LEADERSHIP

## Leadership Principles

88110

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

This course will provide instruction and development in essential leadership principles to enhance and strengthen students' leadership skills and roles within their academic courses, their extracurricular activities, the community and their post-secondary pursuits.

# MATHEMATICS

## Graduation Requirements: 3.0 credits

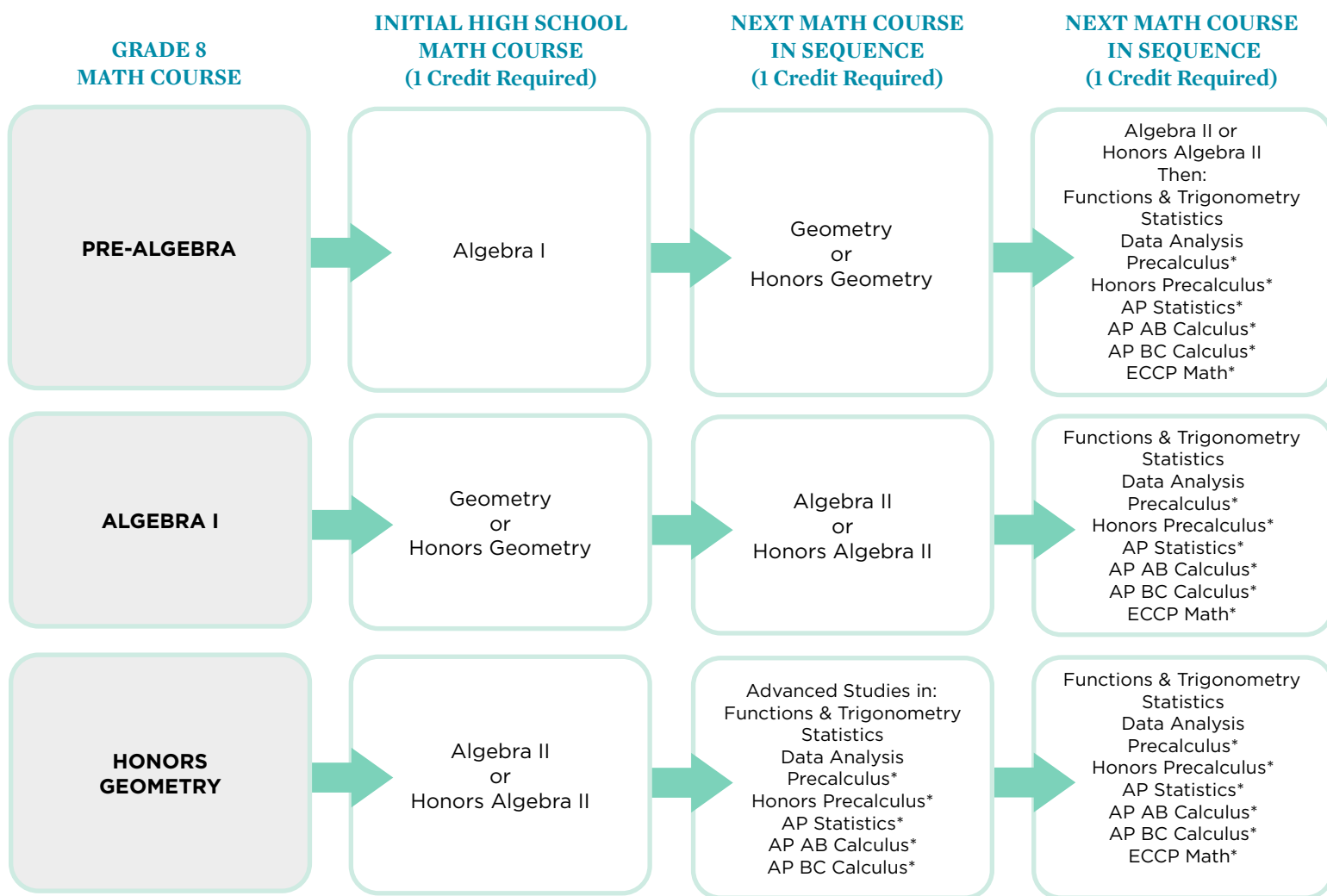
Students prepared for the transition to college and career options should plan to complete a minimum of Algebra I (1.0 credit), Geometry (1.0 credit), Algebra II (1.0 credit), Statistics (0.5 credit) and one advanced math course throughout the high school program of studies. Completion of some of these courses may occur during the program of studies at the Middle School. Successful completion of these courses is an indicator that students have mastered problem solving skills necessary in all college programs of study and career fields.

The math department believes that all students planning to pursue any postsecondary education should take math each year of high school, earning at least 4 math credits for the following reasons:

- Post-secondary institutions often require students to take a math placement exam at the end of the student's senior year and students do better on these exams if they have taken 4 years of high school math.
- The ACT includes Algebra I, Geometry, Algebra II, and Trigonometry topics.
- Many college majors require a statistics course.
- Admission officers are often looking for four years of mathematics, or at minimum that a student has completed Algebra II.

High School students may choose to take two math courses in one year.

## MATH COURSE SEQUENCE



\*Course has recommended prerequisite(s) in addition to Algebra II.

**Algebra I** **1803A/1803B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Algebra I is the foundation for mathematical reasoning. Strategies and skills learned in Algebra I are transferred to nearly every other content area and are used in everyday life. The course is designed to use inquiry based strategies to help build conceptual understanding, vocabulary, and to help students most effectively explain their reasoning. Key concepts include solving and graphing linear equations, functions with exponents, polynomial and quadratic functions, and statistics. Students will be asked to discover and apply formulas to solve for unknowns and develop problem solving ability.

**Algebra II** **1804A/1804B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I

Algebra II is a continuation of Algebra I, including the solutions of equations, inequalities, and systems. An emphasis is placed upon understanding relations and functions, including quadratic functions, polynomial functions, radical functions, exponential functions, logarithmic functions and rational functions. Also, inferential statistics are introduced.

**Honors Algebra II** **1805A/1805B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Geometry or Consent of Instructor

Honors Algebra II is a rigorous, fast-paced course that includes a more in-depth study of Algebra II, including the solutions of equations, inequalities, and systems. An emphasis is placed upon understanding relations and functions, including quadratic functions, polynomial functions, radical functions, exponential functions, logarithmic functions and rational functions. Also, inferential statistics are introduced.

**AP AB Calculus** **1860A/1860B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Precalculus  
Honors Precalculus

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. Technology will be used by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. This course is equivalent to a one-semester college calculus course. Students will learn about limits, continuity, derivatives, and integrals. All students in this course are strongly encouraged to take the Advanced Placement exam in May. Students may earn 4 or 5 credits which may be counted towards college majors requiring calculus.

A TI-84 or TI-89 graphing calculator is required.

**WEIGHTED GRADE**

**AP BC Calculus** **1861A/1861B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Precalculus or AP AB Calculus

AP Calculus BC 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. Technology will be used by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. This course is equivalent to two semesters of a college Calculus course. Students will learn all the topics from the AB course, as well as techniques of integrations, Taylor Series, vectors, and polar and parametric functions. All students in this course are expected to take the Advanced Placement exam in May. Students may earn 8 to 10 credits depending on the university, which may be counted towards college majors requiring calculus.

A TI-89 or TI'nspire ex CAS is required.

**WEIGHTED GRADE**

**AP Statistics** **1862A/1862B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Algebra II or Statistics and Functions & Trigonometry

The purpose of Advanced Placement Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad themes: Organizing Data, Producing Data, Probability, and Statistical Inference.

*Some colleges/universities may consider AP Statistics as a social science or business course instead of a math course.*

**WEIGHTED GRADE**

**Calculus III** **1817A/1817B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** AP BC Calculus

Calculus III is a study of calculus in multivariable. Topics covered in this course include vectors and the geometry of space, vector functions, partial derivatives, multiple integrals, and vector calculus. This course is the equivalent of a third-semester university Calculus course and may be taken for college credit through UW-Oshkosh CAPP.

A TI-84 or TI-89 graphing calculator is required.

**Data Analysis**  **1815**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Statistics

This class is designed to extend the topics that began in Statistics and give meaningful application to the mathematics learned in previous courses. Students will be asked to use a variety of analytical tools to make sense of data sets, perform hypothesis testing, and identify the relationships that exist between variables. Skills learned in this course are highly valued in mathematical, science, economic and business college and career fields. College credit through UW-Oshkosh CAPP available if student also takes CAPP Statistics.

**Functions and Trigonometry** **1806**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra II (If taken concurrently, must be taken second or fourth term)

Functions and Trigonometry is designed for the student who wishes to expand the concepts in Algebra II. The course integrates the ideas of functions and trigonometry. This course will build an understanding with real world problems and establish a firm foundation in future work in mathematics courses. A graphing calculator is required.

**Geometry** **1807A/1807B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I or equivalent

This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods), the use of postulates and theorems as well as algebraic applications. Geometry development includes measurements, identification and application of polygons, circles and polyhedrons. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

**Honors Geometry** **1808A/1808B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I

Honors Geometry is a rigorous and fast paced course that increases the depth of study related to concepts in Geometry. This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods) and algebraic applications. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

**Math for Data Science** **7830**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Precalculus or Precalculus & Trigonometry

*This course is only available through the LAUNCH Data Science & Intelligence for Careers Strand.*

Mathematics is the underlying basis of many aspects of data science. In this course, students will experience authentic and effective ways to work with data through cross cutting concepts that can be applied to multiple career fields. This course will provide students with the mathematical foundation needed to understand and deploy the algorithms that drive many of the important data science tools and techniques related to tasks that require optimization, approximation, prediction, classification, and recommendation. The Python programming language will be used to assist with the computationally intensive techniques that will be explored in the course. The learning in this course may be an alternate or extension to Advanced Placement Calculus. By the end of this course, students will have acquired the prerequisite mathematical knowledge to take more advanced courses in data science.

**Precalculus**  **1809A/1809B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Algebra II or Algebra II and Functions & Trigonometry (If Functions & Trigonometry is taken concurrently with Precalculus, it must be taken first or third term)

Precalculus is a rigorous course encompassing a wide variety of mathematical topics. The content includes mastery of algebraic manipulation of functions (linear, polynomial, rational, exponential, logarithmic, and trigonometric), advanced trigonometry, analytic geometry, logarithms, series and sequences. This course is designed to incorporate theory, process, and application using technology to illustrate concepts whenever appropriate. This course may be taken for college credit through UW-Oshkosh (CAPP). A graphing calculator is required.

**Honors Precalculus** **1810A/1810B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Algebra II or Algebra II and Functions and Trigonometry

Precalculus is a rigorous course encompassing a wide variety of mathematical topics. The content includes mastery of algebraic manipulation of functions (linear, polynomial, rational, exponential, logarithmic, and trigonometric), advanced trigonometry, analytic geometry, logarithms, series and sequences. This course also introduces Calculus outcomes that include limits, asymptotes, continuity and the concept of derivatives. This course is designed to incorporate theory, process, and application using technology to illustrate concepts whenever appropriate. A graphing calculator is required.

**Statistics** 

**1811**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I

Statistics is a course designed to provide a student with an introduction to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course is organized around the themes of one/two variable statistics, calculating probabilities, ways of ordering objects, normal and other probability distributions, and statistical inference. This course will build an understanding with real-world problems, and establish a firm foundation for future work in math and statistics courses. A graphing calculator with a statistics package is required.

College credit through UW-Oshkosh CAPP available if student takes CAPP Data Analysis.

**Graduation Requirements:** Music courses can apply toward the 1.0 credit Practical/Fine Arts requirement. A list of courses that will alternate with A/B music courses will be available before registration.

## GENERAL MUSIC

### Digital Music for Musicians and Non-Musicians

1914

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	Yes
<b>Prerequisite(s)</b>	None						

This course will allow students who have little or no music experience to create their own music experience through the use of virtual instruments and the music mixing program GarageBand. Students will learn the “language of music” through an introduction to the elements; melody, harmony, rhythm, timbre, texture and form. Students will explore how to create with the music platform GarageBand. Students will analyze how music creates and adds meaning to other artistic works including film. Students will analyze and identify the elements of the musical genre of their choice. Finally students will implement their learning by designing and creating a final project. Potential projects include: songwriting, recording and mixing, creating ringtones, creating a music focused podcast, composing and mixing an instrumental work, or creating an original music video.

### Exploring Music Theory and Composition

1913

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	Yes
<b>Prerequisite(s)</b>	None						

This course will provide an introduction to music theory and music composition. Students will be introduced to music performance skills, aural skills, compositional skills, and analytical skills through the exploration of notation, musical terminology, score study and analysis, ear training and composition.

## BAND

All incoming 9th grade band students should register for Concert Band. Auditions for placement into the Symphonic Band and Wind Ensemble will occur by Mid-May of the preceding school year. The typical sequence for band students is Concert Band as a freshman, then Symphonic or Wind Ensemble based on placement after auditions in the sophomore, junior, and senior years.

**Band courses meet all year long on an alternating day schedule.**

**Course Description:** Band is designed to provide students an opportunity to perform and understand quality music in a variety of styles at a technically appropriate level. Instruction is provided to accommodate a variety of needs with a goal of fostering independent musicianship and problem solving skills. Through the rehearsal process, students will study music from a theoretical, historical, cultural, technical, and aesthetic perspective. Students will also study the tools and techniques composers use to elicit the aesthetic and emotional response unique to each piece of music being studied. Obligations include concerts, home football games, basketball games, and parades as outlined in the course syllabus. Commitment to the group is a basic expectation of this course.

### Concert Band

1901A Alt/1901B Alt

<b>Grade Level</b>	9-12	<b>Credit</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Recommendation of middle level instructor or consent of high school instructor						

### Wind Ensemble

1905A Alt/1905B Alt

<b>Grade Level</b>	10-12	<b>Credit</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	By audition only						

### Symphonic Band

1907A Alt/1907B Alt

<b>Grade Level</b>	10-12	<b>Credit</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	By audition only						

## CHORUS

All incoming 9th grade female students should register for Treble Choir. All incoming 9th grade male students should register for Concert Choir. Auditions for placement into the Women’s Ensemble and Chamber Choir will occur before April of the preceding school year. Please note: Choral courses are year long, cumulative experience. The typical sequence for a female choir student is Treble Choir and then Concert Choir or audition into Women’s Ensemble/Chamber Choir in their sophomore, junior, and senior years. The typical sequence for a male choir student is Concert Choir, and then auditions into Chamber Choir in their sophomore, junior, and senior years. **Choral courses are a year long, cumulative experience. Choral courses meet all year long on an alternating day schedule.**

**Course Description:** The four high school choirs are based upon large ensemble lay-out; mixed ensembles are divided into three and four part singing, with chamber choir sometimes dividing into smaller sections (SAB/SATB) and female ensembles into three and four part singing (SSA/SSAA) Through the rehearsal process, students will study music from a theoretical, historical, cultural, technical, and esthetic perspective appropriate to their level of comprehension, while utilizing healthy and appropriate vocal technique. The objective is to perform quality high school/collegiate level literature of moderate to advanced difficulty that spans many genres including sacred, secular, pop, and jazz. Students will also study the tools and techniques composers use to elicit the aesthetic and emotional response unique to each piece of music being studied. Mandatory obligations of the course include in- school/morning rehearsals, dress rehearsals, and concerts, as outlined in the course syllabus. Commitment to the group is a basic expectation of the course. (\*Each singer must purchase portions of their choir uniform.) Recommended sight reading skills and knowledge of music theory concepts differs for each ensemble and is recommended at a high level for auditioned ensembles. The music selected for every ensemble is the “textbook” for the course and serves as a vehicle to teach specific musical concepts. Great care is taken to select quality literature that is technically and musically appropriate for the unique needs of each ensemble. There is a consistent use of four-part construction (sometimes six parts), and the composer’s use of rhythms, key signature, meter, and texture fall at various levels of difficulty, providing challenges for music readers, but also a means for gradual growth for those who are just beginning their music experiences.

### Concert Choir 1903A Alt/1903B Alt

**Grade Level** 9-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Grade 9 is for males only  
Grades 10-12 are for both males & females

### Chamber Choir 1906A Alt/1906B Alt

**Grade Level** 10-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Audition/Instructor Consent

### Treble Choir 1902A Alt/1902B Alt

**Grade Level** 9 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Females only

### Women’s Ensemble 1908A Alt/1908B Alt

**Grade Level** 10-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Audition/Instructor Consent

## ORCHESTRA

All incoming 9th grade orchestra students should register for Symphony Orchestra. Auditions for placement into the Chamber Orchestra will occur before April of the preceding school year. The typical sequence for Orchestra students is Symphony Orchestra and then audition for Chamber Orchestra in their sophomore, junior, and senior years. **Orchestra courses meet all year long on an alternating day schedule.**

**Course Description:** Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students’ understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student’s experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Students will work toward fostering independent musicianship and problem solving skills through their participation in orchestra. Commitment to the group is a basic expectation of this course.

### Symphony Orchestra 1904A Alt/1904B Alt

**Grade Level** 9-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** None

### Chamber Orchestra 1909A Alt/1909B Alt

**Grade Level** 10-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** One year in Symphony Orchestra, Audition (including Class A Solo, 3 Octave Scales, Sight-reading)

**Graduation Requirements:** 1.5 credits of Physical Education is required for graduation and should be taken over the course of 3 separate years.

**Physical Education 9 (PE 09):** This is a graduation requirement for all students and a prerequisite for all upper level physical education courses. This course may be taken through the School District of Elmbrook's Summer School program; if Physical Education 9 is taken in the summer, no physical education course taken the next school year will be counted toward the graduation requirement.

**Physical Education Grades 10-12:** Students in grades 10-12 must complete 1 additional credit (2 classes) of physical education coursework to meet the state and district graduation requirement. **To meet the graduation requirement, the physical education courses must be taken at least one school year apart and a course may only be taken one time except where noted in the course offering guide.** All Physical Education courses will have a swimming unit and fitness assessment component. For each class, the swimming unit may be comprised of a variety of skills and water games as determined by the teacher of the course. Students will be fitness tested for cardiovascular endurance, muscle endurance, flexibility, agility and muscular strength. The FitnessGram Pacer Test is a common assessment across all classes and is assessed two times throughout the term.

## Advanced Team and Individual Sports 2021

<b>Grade Level</b>	12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	1.5 credits in Physical Education courses						

This physical education class includes experience in more advanced and complex motor skills. Emphasis is placed on student choice for individuals and team games and the attainment of lifetime skills for recreational participation in small and large group situations. The majority of the time will be spent on game play and tournament-type competition with students acting as facilitators of game and tournament play. In an effort to continually build on the student's fitness level, a variety of fitness based activities will be integrated throughout the term.

## Lifeguarding 2004

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 15+ years old Level V swimming ability						

The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguarding participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries and sudden illness until emergency medical services (EMS) personnel take over. Our Lifeguarding course offers students the chance to achieve Red Cross certification in Lifeguarding. Students will learn various lifeguarding skills, CPR for the Professional Rescuer, and First Aid. Students will have a chance to refine rescue skills and work on swimming endurance. Students must turn 15 years old by the end of the term that they are taking the class.

## Lifetime Sports 2015

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

Lifetime Sports emphasizes activities that are fun for all ages and combine physical skill with a relaxing social component. Students will have the opportunity to explore sports not common in prerequisite physical education classes. In an effort to continually build on the student's fitness level, FITNESSGRAM testing and activities related to the five components of fitness will be incorporated throughout the term. Additionally, this class will spend a portion of the term in the pool reviewing strokes and playing water based games. \*The class may participate in several out of school field trips which have minimal fees. These field trips are designed to enhance the students' experience in the course.

## Outdoor Pursuits 2006

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09						

Outdoor Pursuits offers classroom and field experience in the areas of archery, team building, canoeing, fishing, rock climbing, frisbee golf, mountain biking, scuba diving, survival skills, rope tying and outdoor living. Activities are designed to teach students lifetime physical and recreational skills, providing an understanding of and respect for the environment in which these activities occur.

The class will participate in several out of school field trips which require fees. These field trips are designed to enhance the students' experience in the course.



**PE 09** **2001**

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

Students are introduced to a variety of physical education activities so that they may continue to develop and explore areas of interest. The five components of health-related fitness, team sports, individual and dual activities, swimming, and team building activities are explored throughout the course. In addition, students will set fitness goals, develop fitness plans, and regularly assess their progress toward fitness goals.

Part of our Human Growth & Development curriculum occurs during this course. Parents are notified annually of lessons specific to Human Growth, and Development.

**PE Assistant** **2007**

<b>Grade Level</b>	12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Successful completion of Physical Education requirements for graduation, application, and interview process for all perspective candidates; consent of instructor						

As part of the physical education program, qualified seniors are provided the opportunity to observe the teacher in a classroom setting. The students will develop leadership roles, provide special help to physical education students and develop an increased awareness of their own skills regarding the various aspects of teaching and an advanced ability to interact with others. Every course will include a swimming unit and a fitness assessment. Students are encouraged to enroll in as many electives as designed.

**Personal Fitness and Wellness** **2016**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

This course assists students in designing and monitoring a personalized workout and wellness plan. Unlike traditional physical education classes, Personal Fitness & Wellness leverages current fitness trends like group exercise, HIIT, yoga, Pilates, zumba and weight training to help achieve a personal fitness and wellness goal. Topics such as nutrition, hydration, sleep habits, and stress management for optimal personal well- being will be covered on a regular basis. There are also field trips to local fitness facilities to enhance the student's experience.

There will be a fee associated with all field trips.

**Sports Officiating** **2020**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

Sports Officiating will help students gain knowledge and understanding of rules and officiating techniques for youth sports while developing their own fitness through participation in team-based sports. This class will consist of both a classroom learning component (aimed toward rules, signals, officiating conduct, etc.) and daily opportunities for fitness and exercise. Students will be provided several opportunities to officiate games during class time. This course will prepare students for potential employment as a sports official.

**Racquet and Team Sports** **2008**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

The emphasis in Racquet and Team Sports is placed on the rules and skills necessary to play at a competitive level. Emphasis is also placed on attainment of lifetime skills and sports for recreational participation. In an effort to continually build on the student's fitness level, FITNESSGRAM testing and activities related to the five components of fitness will be incorporated throughout the term. The instruction is fast paced and students will be competing in games on a daily basis. Additionally, this class will spend a portion of the term in the pool reviewing strokes and playing water based games.

**Ultimate Strength and Conditioning** **2019**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

This course is designed for students that would like to create and manage their own personal fitness plans. Students will be introduced to concepts of program design such as selection and arrangement of exercises, determining sets, reps, and loads, and the monitoring and testing of physical performance. Students will also engage in a battery of health-related fitness tests to assess their individual fitness levels and create a foundation for personalization of their own fitness plans. Cardiovascular exercise will also be included to round out a complete fitness plan.

**Variety Sports** **2013**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

The emphasis in Variety sports is placed on the rules and skills necessary to play at a competitive level. The sports that are played will be non-traditional, with the exception of some racquet sports. Emphasis is also placed on attainment of lifetime skills and sports for recreational participation. In an effort to continually build on the student's fitness level, FITNESSGRAM testing and activities related to the five components of fitness will be incorporated throughout the term. The instruction is fast paced and students will be competing in games on a daily basis. Additionally, this class will spend a portion of the term in the pool reviewing strokes and playing water based games.

## Graduation Requirements: 3.0 credits

Please note that most universities suggest students take Biology and 2 credits of Physical Science (Chemistry, Geology, Astronomy & Meteorology, Physics, AP Chemistry, AP Physics).

### Anatomy and Physiology 2101A/2101B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Biology

Anatomy and Physiology is an advanced biology course designed to expose students to the form and function of the human body with an emphasis on structures, interactions, and cellular components. Extensive use and knowledge of vocabulary, including medical terminology, is emphasized throughout the course.

### AP Biology 2160A/2160B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Biology  
Chemistry

AP Biology is designed to be the equivalent of a College Introductory Biology Course taken by biology majors during their first year. This course differs significantly from the usual high school biology course in respect to the textbook used, the range and depth of topics covered, and the time and effort required. A heavy emphasis will be placed on inquiry based laboratory investigations. For each big idea students will design and execute at least two laboratory investigations. All investigations and activities will emphasize the seven science practices that are designed to deepen students understanding of each big idea and allow connections to be made between each one. AP Biology will provide opportunities for students to develop, record, and communicate the results of laboratory investigations.

**WEIGHTED GRADE**

### AP Chemistry 2105A/2105B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Completion of or Concurrent Enrollment with Algebra II and Chemistry

AP Chemistry is for students who have the willingness and ability to meet the academic challenges of a full college chemistry course. The focus of the class is to prepare students for the AP Chemistry exam, which is taken in May, to potentially earn college credit. This rigorous course requires extensive study/preparation outside of the classroom and emphasizes strong chemical/mathematical relationships and in-depth analysis of chemical reactions. The AP Chemistry course requires students to research and investigate chemical principles in the laboratory, while developing precise, effective lab techniques.

**WEIGHTED GRADE**

### AP Environmental Science 2162A/2162B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Biology  
Chemistry

AP Environmental Science is focused on the study of the interrelationships between organisms and their physical surroundings and the effects man has within the worldwide ecosystem. This course provides students with knowledge to evaluate choices that humans have made that have impacted the environment and optimize worldwide living standards. The course emphasizes the development of scientific principles, which allow students to identify and analyze environmental problems and associated risks. Students also examine solutions that can resolve/prevent ecological problems through critical and creative thinking skills.

**WEIGHTED GRADE**

### AP Physics I 2165A/2165B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra II or concurrent enrollment

AP Physics I is equivalent to a first-semester algebra-based college physics course. The course covers Newtonian mechanics, work, energy, power, rotational motion, momentum, mechanical waves, sound and an introduction to electric circuits. The ability to develop and use physics knowledge by using scientific inquiry and reasoning is at the heart of this course. It is recommended that students who take this course follow it with AP Physics 2 for a complete coverage of physics topics and adequate preparation for college science courses.

**WEIGHTED GRADE**

### AP Physics II: Algebra Based 2166A/2166B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

AP Physics II is the equivalent to a second-semester algebra-based college physics course. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics and atomic and nuclear physics. The ability to develop and use physics knowledge by using scientific inquiry and reasoning is at the heart of this course. Students interested in Engineering and the physical science should follow this course with AP Physics C: Calculus-Based.

**WEIGHTED GRADE**

**AP Physics C**  **2164A/2164B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Physics or AP Physics I and AP Calculus or concurrent enrollment in AP Calculus

AP Physics C: Mechanics is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion: work, energy and power: systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

AP Physics C: Electricity and Magnetism is also a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

**WEIGHTED GRADE**

**Astronomy and Meteorology** **2114**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Astronomy will include the origin and history of the universe, the formation of the Earth, and the solar system. Many standard conceptual astronomy topics such as planets, stars, galaxies and more intriguing topics such as the origin of the planet and the search for extraterrestrial intelligence will be discussed. We will also study Meteorology which will include atmospheric makeup, water in the atmosphere, storm systems, and weather.

**Biology** **2102A/2102B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Biology is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in population over time. Students explore biological concepts through an inquiry approach.

**Honors Biology** **2103A/2103B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Biology is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. Students explore biological concepts through an inquiry approach. Honors Biology is a more in depth course and provides a more expanded curriculum (compared to biology) and will provide more challenge for the self-directed learner.

**Chemistry** **2105A/2105B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I

General Chemistry introduces students to chemistry and provides the foundation for a college chemistry experience. Students will work to develop problem-solving skills and the math necessary to carry out scientific calculations. Topics studied include: chemical and physical change, conversions, atomic models, the mole concepts, electron configurations, periodic law, chemical bonding, naming compounds, writing formulas, reaction types, stoichiometry, gas laws, kinetic molecular theory, heat changes in reactions, and solution chemistry. Tests, quizzes, and lab activities require students to demonstrate competent algebraic math skills along with critical, analytical and abstract thought.

**Honors Chemistry** **2106A/2106B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra II concurrent enrollment

In Honors Chemistry, students will work to develop skills in scientific calculations and problem-solving techniques. Beyond the general chemistry curriculum, honor students will study quantum theory, thermodynamics, acid-base reactions, pH, indicators, titrations, and advanced stoichiometric relations with more sophisticated, multi-step problems. In addition, each unit is explored in greater depth and at a faster pace than the general chemistry course. Tests, quizzes, and lab reports require students to demonstrate strong math skills along with critical, analytical and abstract thought.

**Culture of Healthcare**  **1505A/1505B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

This class is designed for the student who has an interest in pursuing a career in the healthcare industry. Health careers are explored through the use of guest speakers, job shadowing, and individual investigation. Students assess their own personal interests and aptitudes for working in this rapidly growing area. Current issues regarding health care are addressed. This course is transcribed with Waukesha County Technical College; students enrolled are eligible to earn 2 college credits that appear on a college transcript (may/may not be transferable to other institutions of higher education). Offered within the LAUNCH Medicine and Healthcare Strand and the LAUNCH Healthcare Solutions Strand.

**Ecology** **2109**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Students investigate the living and nonliving aspects of the environment and how they impact one another. Current environmental issues are discussed throughout the term including topics such as endangered species and natural resources management. Web-based instruction, reading, discussions, audiovisual presentations, fieldwork and lecture are teaching and learning strategies used to help students gain mastery of ecological concepts.

**Geology** 2115**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

This course is an introduction to the geological processes within and on the surface of the earth. Students will learn the description, classification and origin of minerals and rocks. Students will also study the internal and external processes that include volcanism, earthquakes, deformation, mountain building.

**Marine Biology** 2104**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Within this course, students will explore the basic principles of marine biology, ocean ecology, marine life, and the impact that human activity has on marine life. Grounded in scientific inquiry, specific topics students examine include marine ecosystems and the relationships among species; the evolution, adaptation, and classification of marine species; and human impact and sustainability of our world's oceans.

**Medical Terminology**  1510A/1510B**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Biology or concurrent enrollment

Medical Terminology focuses on the component parts of medical terms, prefixes, suffixes, and root words. Students practice formation, analysis and reconstruction of terms. Emphasis is placed on spelling, definition, and pronunciation. The course also includes an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as, systemic and surgical terminology.

This course is transcribed with Waukesha County Technical College (WCTC) and may/may not be transferable to other institutions of higher education. This course may be recognized by UW-Milwaukee School of Nursing. Offered within the LAUNCH Medicine and Healthcare Strand.

**Organic Chemistry** 2107A/2107B**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Chemistry or Honors Chemistry

Organic Chemistry is a comprehensive introduction to the chemistry of carbon. Students will work to develop skills and understanding of current ideas of bonding and structure, major reaction mechanisms and pathways, and complete an organic based research project. This course will prepare students for entrance to college level Organic Chemistry.

**Physics** 2111A/2111B**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Physics is the study of the relationship between matter and energy and is conceptual in nature. The course is concerned with the fundamental laws and principles of the physical world and their practical applications. Topics of study are selected from the following: mechanics, wave motion, light, sound, and electricity. Course activities involve laboratory work with comprehensive reports, student presentations, math skills such as Algebra and Graphing Familiarity, and periodic classroom demonstrations.

**PLTW Biomedical Innovation** 2072A/2072B**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

In the PLTW (Project Lead the Way) Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project.

**PLTW Human Body Systems** 2168A/2168B**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal mannequin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

**PLTW Medical Interventions** 2071A/2071B**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

*This course is only available through the LAUNCH Healthcare Solutions Strand.*

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

**PLTW Principles of Biomedical Science 2167A/2167B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate the lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Project Lead the Way Biomedical Sciences program and lay the scientific foundation for subsequent courses.

# SOCIAL STUDIES

Graduation Requirements: 3.5 credits

Grade	Required Course Work	Elective Offerings	
9	World History or AP World History	AP Human Geography AP World History	
10	Human Geography or AP Human Geography	Abnormal Psychology Crime, Society, & the Law Current Issues Modern Society AP European History AP Psychology  AP Macro Economics AP Micro Economics AP United States History AP U.S. Government and Politics	
11	20th Century American History or AP U.S. History		
12	Principles of American Democracy or AP U.S. Government & Politics  AND  Economics or AP Micro Economics or AP Macro Economics		

## 20th Century American History 2202A/2202B

**Grade Level** 10 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Beginning with an analysis of significant events of the 19th Century, 20th Century American History asks students to examine and understand the importance of the emergence of the United States as a world power, and track the political, social, and economic changes of each decade through the end of the century. Students will demonstrate knowledge of major historical figures, dates and events of each decade. Throughout the decades, students will identify strengths and weaknesses of American foreign policy, analyze the economic impact of various changes, and evaluate public policy and compare/contrast a variety of reform movements.

## Abnormal Psychology 2210

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Abnormal Psychology investigates the experience and expression of psychological disorders, what it means to be abnormal, and its effect on people's lives. Students are encouraged to think analytically and challenge their beliefs regarding abnormal behavior while learning the biological/scientific/socio-cultural basis for mental illnesses. Students will learn about the subjective experience, causal factors, clinical presentation, and methods of assessment and treatment of different types of psychological disorders.

**AP European History**  **2260A/2260B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** World History

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

**WEIGHTED GRADE**

**AP Human Geography**  **2273A/2273B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

AP Human Geography introduces high school students to college-level introductory human geography or cultural geography. The content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction.

**WEIGHTED GRADE**

**AP Macro Economics (AP Macro)**  **2261**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course prepares students to pass the Advanced Placement test in May in Macro Economics and potentially earn college credit. Whereas AP Micro Economics focuses its attention on the small parts that make up the entire economy, Advanced Placement Macro Economics focuses on analyzing the economy as a whole unit. Students will gain a thorough understanding of the problems, principles, theories, and solutions to our nation's economy. The emphasis in Macro Economics is on measuring national economic performance, such as unemployment, inflation, and gross domestic product, and analyzing solutions to these economic problems by applying monetary and fiscal policy. The student will explore and analyze the methods the government uses to improve our economy. In addition, the course will develop an understanding of international economic principles and applications.

**WEIGHTED GRADE**

**AP Micro Economics (AP Micro)**  **2262**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course prepares the students to pass the Micro Economics Advanced Placement test in May and potentially earn college credit. Students who are considering studying business, education, law, pre-Med, or graduate school should take AP Economics to bolster their analytical skills. The course gives students a thorough understanding of the principles of economics that apply to the individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on demand and supply theories, and how it influences the prices of goods and services, resources, interest rates, rents and wage levels. Students will gain an in depth understanding of the different types of competitive markets and how decisions are made in each type. The role government plays in regulating and promoting economic efficiency, equity and economic goals is analyzed in great depth.

**WEIGHTED GRADE**

**AP Psychology**  **2263A/2263B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

**WEIGHTED GRADE**

**AP U.S. Government and Politics**  **2264A/2264B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. This course may fulfill the graduation requirement in lieu of Principles of American Democracy, and must be taken in its entirety.

**WEIGHTED GRADE**

**AP U.S. History**  **2265A/2265B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** World History

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

**WEIGHTED GRADE**

**AP World History**  **2266A/2266B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** World History

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. The AP World History: Modern course requires that students learn world history from a global perspective. Balanced coverage of the regions within the course ensures that a single region is not situated at the center of the historical narrative.

**WEIGHTED GRADE**

**Crime, Society and Law** **2211**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course will introduce students to the US legal system, including the federal and state court systems, and constitutional and criminal law. Additionally, students will become familiar with criminology, corrections, deviance, and profiling. Students will gain an understanding of the careers associated with the legal and justice system and rehabilitation/corrections.

**Educational Inquiry 1: Critical Perspectives on Education**  **7816A/7816B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

*This course is only available through the LAUNCH Future Teachers Strand.*

Critical and reflective examination of assumptions about schooling in the United States including the impacts of race, ethnicity, class and gender; power and control in school and community contexts; and the concerns, demands, conditions, and rewards of the teaching profession. Field Experiences required.

**Current Issues** **2203**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Current Issues is directed toward teaching high school students to conduct an in-depth study and analysis of important social, economic, and political concerns. Current issues is a dynamic, changing course which meets the students needs for structure and direction, yet allows them the time and freedom to develop research and analysis skills, and to apply them in the formation of intelligent opinions on any issue. Students assist in choosing some of the topics to be analyzed. Some issues selected will provide opportunities for class investigation, while other topics will provide impetus for independent research. Students will use printed, electronic, and visual media to keep current on important news events.

**Economics** **2204**

**Grade Level** 12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Economics will introduce the student to microeconomic and macroeconomic theories and problems. This is an introductory overview of economics. The emphasis on this course is on decision-making. The course equips each student with the ability to become a better decision maker regarding economic events and problems so they will become a more informed citizen. The students will study the foundations of economic analysis, demand and supply mechanics, competitive and noncompetitive markets, the role of profit, labor economics, money and banking economics, income distribution and poverty, government spending and taxing decisions, investing, measuring economic performance of our nation, inflation, unemployment, debts and deficits, and international economics. Students will engage in critical thinking activities, discussions, debates, and term projects to gain an understanding of these economic concepts in addition to traditional testing issues.

**Human Geography** **2212**

**Grade Level** 10 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Human Geography is the study of the interconnectedness between people, place, and environment. Through an inquiry approach, students learn about and analyze the complex relationships between people and their physical surroundings. Topics of study include population and migration, cultural patterns and processes, and political and economic development.



**Modern Society** 2207**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Modern Society offers students an introduction to the field of sociology. It provides the students with an understanding of the tools and techniques of sociology. This course is designed for students who want to study human relationships, particularly during adolescence. Students will learn about how sociologists study cultures and their differences. Knowledge of minority groups will be expanded in an attempt to create an awareness of prejudicial attitudes and discriminatory practices. This course will also expose students to how social groups and social classes affect human behavior.

**Principles of American Democracy** 2208**Grade Level** 12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Principles of American Democracy provide students with a working knowledge of the structure and function of the federal government. Students will investigate the basic principles of our government, the rights, freedoms, and responsibilities of U.S. citizens, the adaptability of our democratic system to our changing world and society, the role of public opinion and special interests in policy-making, the role of political parties, and basic election procedures.

**Psychology** 2209**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Psychology explores the fascinating subject of human behavior and the mind. It seeks to explain why people think, feel, and behave the way they do. The subject matter of psychology is the individual. Through a variety of classroom activities and experiments, the student is introduced to basic principles of psychology such as learning, dreams, behavior, psychological disturbance, and human development through the lifespan.

**World History** 2201A/2201B**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

World History provides students with a working knowledge of world history beginning with the European Renaissance and Reformation through the late 20th century. Students will examine and understand the importance of historical, political, economic, and social changes during this period. Topics to be studied include religious change development of science/technology, imperialism/nationalism, shifts in world power, world wars, revolutions, and the emergence of the Cold War.

# WORLD LANGUAGES

## French 1 1601A/1601B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Have you ever wanted to eat a croissant while looking at the Eiffel Tower? Have you ever wanted to travel to Paris and stroll on the Champs-Elysees? Have you ever wanted to flip a crepe and say "Oh là là!" If so, French is for you! You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the French-speaking world. Bon voyage!

## French 2 1602A/1602B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 1

Through the study of French-speaking people, French 2 expands previous knowledge of the French language through the study of train and airplane travel, sports, daily routine and general health, and cultural and leisure activities. The students will express themselves and initiate conversations in the present and past tenses.

## French 3 1603A/1603B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 2

Through the study of French-speaking people, French 3 will expand previous knowledge with the study of telecommunications, travel and transportation, health and medicine, the banking and postal systems, and gastronomy. Students will express themselves and initiate conversations. Students will speak, read, write, and comprehend with an emphasis on the present, past, future, imperfect, conditional, and command forms.

## French 4 1604A/1604B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 3

French 4 will expand previous knowledge through the study of foreign travel, public transportation, holidays, professions, and cultural etiquette in France, the Maghreb, and agriculture in France. Students will speak, write, read, and comprehend in the indicative and subjunctive mood. Students will also read authentic French short stories and will explore French cinema.

## French 5 1605A/1605B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 4

Through the study of the French-speaking world, French 5 will expand previous knowledge through the study of literature, history, current events, film and the arts and the sciences. Students will examine their own place in the global culture through their study of selected short stories, poems, novels, and other resources. Students will develop the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. Course content can reflect intellectual interests shared by the students and teachers.

This course may be taken for dual credit through UW- Oshkosh CAPP.

**WEIGHTED GRADE**

## German 1 1611A/1611B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Here are the three top reasons why you should take German: 1. English and German belong to the same language family. That's why German is easy to learn. 2. Want to make money? Germany is the largest European trading partner with the US. 3. Hate to pay tuition? Go to a German school for free! Most German universities don't charge tuition. If this sounds good to you, take German! In German 1 you'll learn the basics of communicating and be able to talk about yourself, your friends and your family.

## German 2 1612A/1612B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** German 1

Through the topics of holidays, celebrations, films, will build on skills gained in German I. In German II, students will express themselves using present, past and future tenses. Students will also continue to learn about other German speaking countries. It is suggested that the student have a C or better in the current course OR consent of the current instructor to advance to the next level.

## German 3 1613A/1613B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** German 2

In German 3, students will further develop communicative skills through the themes of Family and Home, Food and Visual Arts. Literature is introduced through the study of fairy tales, Aesop's fables, and other short stories. More complex grammar, including adjective endings, complex sentence structure, and genitive forms will be introduced.

**German 4** **1614A/1614B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** German 3

This is the year of inventions, contemporary issues, and legends! Students will build on previous knowledge as they explore new topics through a variety of media. Students will deepen their cultural insights through the use of literature and other authentic materials. They will express themselves in German creatively, using more complex grammar, such as relative pronouns and passive voice.

**German 5**  **1615A/1615B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** German 4

Students will refine their German skills through literature, history, culture and review of major grammatical concepts. Topics may include: immigration, World War II, forms of prejudice, music and art. Students will become increasingly fluent as they begin to hypothesize, negotiate and persuade in German. German 5 provides a solid foundation for study of German at the college level.

This course may be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE**

**Latin 1** **1621A/1621B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

The beginning Latin student will be introduced to the culture and history of the ancient civilizations through a study of the basics of the language. The first year student will build a basic vocabulary and study the essentials of grammar to foster skill in reading and comprehending fabricated Latin as well as responding orally to basic classroom management questions. The application of Latin grammar and vocabulary to English skills offers the student a practical 21st century approach to a foundational language. Cultural topics including the Roman family, children's sports, slavery and the early Roman Republic will augment the student's foundation in Western Civilization.

**Latin 2** **1622A/1622B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 1

The second year Latin student, after a review of basic grammar, will expand his/her Latin vocabulary and move into the study of more advanced grammatical constructions. This study of the language and its application to English will be incorporated into a framework of cultural topics, which include Roman government, the expansion of the Empire, Roman dining and food, entertainment and sports. The application of the Roman ideals to the development of Western Civilization will continue.

**Latin 3** **1623A/1623B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 2

The third year Latin student will continue to develop his/her ability to use the language through the reading, comprehension and interpretation of both original Latin and modern, fabricated Latin. Stories selected for reading and vocabulary expansion include fairy tales, Harry Potter, and Aesop's fables. Original authors selected for study, discussion and interpretation include Seneca, Quintilian, Ovid, and Catullus. In conjunction with the basic functions of the language, the student will continue to develop his/her command of Latin with composition using compound sentences and primary tenses of the subjunctive. Cultural topics including Roman emperors and their reigns will provide a basis for discussion and comparison between those facets of the ancient world and modern fine arts, political theory and structure.

**Latin 4**  **1624A/1624B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 3

The fourth year student will continue to expand his/her proficiency through reading, comprehension and interpretation of Latin. Students will read Latin prose, which includes the works of Livy, Cicero, Julius Caesar, and Cornelius Nepos. In conjunction with the basic functions of the language, the student will continue to develop his/her command of Latin with composition using complex sentences and secondary tense subjunctives. Cultural topics including the legends of the founding of Rome, Roman social institutions of marriage, military service, will provide a basis for discussion and comparison between ancient world and modern equivalents. Special interest is taken in Caesar's role as biased journalist/military historian, xenophobia, Cicero's rhetorical stratagems, and ancient Greek love/hate relationship with one of their tyrant leaders of the 5th century B.C.

This course may be taken for dual credit through the University of Minnesota's College in the Schools Program (CIS). Students that are in 11th or 12th grade may receive college credit. 10th grade students would need instructor approval before enrolling in CIS.

**WEIGHTED GRADE**

**Latin 5**  **1625A/1625B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 4

The fifth year student will continue to develop his/her proficiency through reading, comprehension and interpretation of original Latin. Students will read Vergil's Aeneid. In conjunction with refining his/her skills in the basic functions of the language, the student will polish his/her command of Latin with composition in a variety of styles, employing multiple sentence structures and a variety of grammatical constructions. In addition, the course will include the study of the cultural, social and political context of the literature including, but not limited to, Roman religion, government, art, architecture, military aspects and the role of women in ancient society.

This course may be taken for dual credit through the University of Minnesota's College in the Schools Program (CIS).

**WEIGHTED GRADE**

**Mandarin Chinese 1** **1641A/1641B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Do you want to go on an adventure through the unique Chinese culture, and taste delicious Chinese food? Do you want to learn a language through stories of Jackie Chan, Mulan, or Chinese Zodiac animals? Do you want to visit China someday, and see the famous and majestic Great Wall and Forbidden City? If so, Mandarin Chinese is for you! It's useful too - Chinese has the most first language speakers of any language, and China is increasingly important on the world stage. You will learn this fascinating language in easy steps. Read, write, speak, and think in a whole new way. Read and write in Chinese words that turn ordinary words into pieces of art. Speak in tones that add a musical touch to everyday speech.

**Mandarin Chinese 2** **1642A/1642B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Mandarin Chinese 1

Mandarin Chinese 2 will build upon the skills and knowledge learned in Mandarin Chinese 1. Students will continue to develop speaking, reading, and writing skills within the language. Engaging graphics, videos, and authentic traditional practices such as Chinese calligraphy will keep students motivated and make learning Mandarin Chinese exciting and fulfilling.

**Mandarin Chinese 3** **1643A/1643B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Mandarin Chinese 2

This course will continue to build on students' skills and knowledge from Chinese 2. To increase language proficiency, students actively engage in learning opportunities aligned to the three communicative modes (interpersonal, interpretive, and presentational) and the five goal areas: communication, cultures, connections, comparisons, and communities. Successful learning in this course will allow students to reach a level of listening, speaking, reading and writing that will allow them to successfully communicate with the language (e.g., when traveling in China).

**Mandarin Chinese 4** **1644A/1644B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Mandarin Chinese 3

Welcome to Chinese 4! This year you will study a variety of cultural festivals and activities in China in a full-immersion setting. This will be done via the three modes of communication-presentational, interpersonal, and interpretive. By the end of Chinese IV, you will be able to read authentic texts, comprehend authentic films/video clips, write and speak in multiple tenses, and participate in discussions in Chinese.

This course may be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE****Spanish 1** **1631A/1631B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

¡Hola! Wouldn't it be fun to travel to Spain? Mexico? Guatemala? Argentina? Wouldn't you like to learn all about the different types of foods, holidays, and cultural differences from the 21 Spanish-speaking countries? If so, take Spanish. You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the Spanish-speaking world. Come discover what makes the Hispanic cultures so diverse and find new ways to connect to the larger world. ¡Buen Viaje!

**Spanish 2** **1632A/1632B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Spanish 1

Spanish 2 students will expand and spiral previous knowledge into more complex structures through the study of people, activities, pastimes, daily routine, shopping, food and travel. Students will study the language and its function within these topics. Students will study comparatives, superlatives, direct object pronouns, indirect object pronouns, and the imperative, and they will have extensive opportunities to express themselves and initiate conversations in the present, present progressive and preterite tenses.

**Spanish 3** **1633A/1633B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Spanish 2

Spanish 3 will expand and spiral previous knowledge into more complex structures through the topics of friends and self, school, the world of work, life at home and personal past life and stories, health and fitness. Students will express themselves and initiate conversations. Through the function of language, students will speak, write, read and comprehend in the indicative mood with an emphasis on the present, the preterit and imperfect past, imperative, future, conditional and present perfect tenses.

**Spanish 4** **1634A/1634B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Spanish 3

Spanish 4 will expand and spiral previous knowledge through the study of topics that will include Spain, outdoor activities, the arts, friends and relationships, health, community and future plans. Students will speak, write, read and comprehend in the indicative and the subjunctive moods. In the indicative mood, emphasis will be given to the present, past, future, conditional and perfect tenses. In the subjunctive mood, students will learn present, present perfect and imperfect tenses. We explore past participles used as adjectives, adjective clauses, and elements of passive voice. In addition, students read and begin to analyze authentic literature. This course is intended for students who are seriously interested in language study. Spanish 4 places the student in an advanced learning environment with emphasis on interpersonal, presentational, and interpretive communication.

Spanish 5 

1635A/1635B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Spanish 4

Spanish 5 will expand and spiral previous knowledge by writing, speaking, and reading at an advanced level. Students will compare and contrast Hispanic cultures and lifestyles with American culture and lifestyles. Students will express themselves by initiating and sustaining conversations utilizing both indicative and subjunctive moods. Students will express ideas orally with accuracy and fluency. Student will read and analyze authentic literature and write compositions using advanced grammatical concepts. Course content will reflect intellectual interests shared by the students and teacher in such areas as literature, current events, the arts, history, culture and sports. Spanish 5 places the student in an environment that prepares the serious student for continued growth in preparation for further study and enjoyment. This course may be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE**Spanish 6 

1636A/1636B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Spanish 4

Spanish 6 is a college level course taught in our high schools. It will cover an intensive grammar review, a comprehensive selection of short stories, plays and poetry written by Spanish-speaking authors, a review and enrichment of vocabulary, and an analysis of a variety of cultural aspects. This course can be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE**

# COURSES AT A GLANCE

When selecting a 1 credit (2 term) course, you MUST enter a course number for each term (ex. Geometry - 1807A AND 1807B).

Course numbers ending with “Alt” run on alternating days.

“+” indicates that a course is repeatable for credit.

“\*” indicates that a course has (a) prerequisite(s). Please refer to the course descriptions in the Planning Guide for more information.

“∞” indicates that a course provides an opportunity for college credit.

Course	Grade	Course#
<b>AP CAPSTONE</b>		
AP Research ∞	11 - 12	7902A Alt/7902B Alt
AP Seminar ∞	10 - 12	7901A Alt/7901B Alt
<b>APPLIED TECHNOLOGY &amp; ENGINEERING</b>		
Architecture	9 - 12	1001
Automotive Academy*	11 - 12	1003
Automotive Technology I	10 - 12	1002
Automotive Technology II*	10 - 12	1031
Automotive Technology III*	10 - 12	1036
Building Construction I	9 - 12	1006
Building Construction II*	9 - 12	1008
Computer Aided Design (CAD) ∞	9 - 12	1032
Digital Imaging I @ BCHS	9 - 12	1012
Digital Imaging II* @ BCHS	9 - 12	1007
Digital Imaging Seminar+ @ BCHS	11 - 12	1011
PLTW: Aerospace Engineering	11 - 12	2169A/2169B
PLTW: Robotics and Automation (CIM)	10 - 12	2170A/2170B
PLTW: Digital Electronics (DE)	11 - 12	1038A/1038B
PLTW: Engineering Design & Develop (EDD)	11 - 12	1039A/1039B
PLTW: Intro to Eng. Design (IED) ∞	9 - 12	1035A/1035B
PLTW: Principles of Engineering (POE)	10 - 12	1037A/1037B
Small Engines	9 - 12	1014
Technology Assistant*+	9 - 12	1015
Video Production* @ BCHS	9 - 12	1019
Wood Design & Production I	9 - 12	1004
Wood Design & Production II*	9 - 12	1030
Woods Seminar*	11 - 12	1017
Yearbook Publishing Design & Prod*+ @BCHS	9 - 12	1018A/1018B
<b>ART</b>		
Art Lab+	11 - 12	1126
AP Art & Design*+ ∞	11 - 12	1164A/1164B
AP Art History ∞	11 - 12	1160A/1160B
Art Metals I	9 - 12	1106
Art Metals II*	9 - 12	1112
Art Metals III*	9 - 12	1124
Art Seminar*+	9 - 12	1101A/1101B
Ceramics & Sculpture I	9 - 12	1102
Ceramics & Sculpture II*	9 - 12	1103
Ceramics & Sculpture III*	9 - 12	1114
Design Drawing & Color Theory* ∞	11 - 12	1170
Digital Illustration* ∞	9 - 12	1122
Digital Imaging I @ BEHS	9 - 12	1012
Digital Imaging II* @ BEHS	9 - 12	1007
Digital Imaging Seminar*+ @ BEHS	9 - 12	1011
Drawing I	9 - 12	1105
Drawing II*	9 - 12	1111

Course	Grade	Course#
<b>ART (continued)</b>		
Drawing III*	9 - 12	1116
Image Editing/Photoshop ∞	11 - 12	1173
Page Layout/InDesign ∞	11 - 12	1172
Painting I	9 - 12	1107
Painting II*	9 - 12	1108
Painting III*	9 - 12	1119
Printmaking Mixed Media I	9 - 12	1109
Printmaking Mixed Media II*	9 - 12	1110
Printmaking Mixed Media III*	9 - 12	1121
Video Production* @ BEHS	9 - 12	1019
Yearbook Publishing Design & Prod*+ @BEHS	9 - 12	1118A Alt/1118B Alt
<b>BUSINESS</b>		
Business Law	10 - 12	1201
Business Leadership+	11 - 12	1234A/1234B
Business Management	10 - 12	1204
College Accounting	11 - 12	1230A/1230B
Entrepreneurship	10 - 12	1203
Financial Management & Investing ∞	9 - 12	1211
Introduction to Accounting	9 - 12	1205
Introduction to Business	9 - 12	1206
Introduction to Marketing	9 - 12	1212
Keyboarding & Digital Technologies	9 - 12	1207
Notetaking and Study Skills	9 - 12	1208
Personal Finance	9 - 12	1209
Software Applications	9 - 12	1231
Sports & Entertainment Marketing	10 - 12	1210
<b>COMPUTER SCIENCE</b>		
Adv. Game Devel & Comp Sci Topics*	9 - 12	1242
AP Computer Science A* ∞	9 - 12	1260A/1260B
AP Computer Science Principles* ∞	9 - 12	1261A/1261B
Intro to Computer Prog & Game Devel*	9 - 12	1241
Student Technology Team	9 - 12	1234A, B, C, D
Web Design and Mobile Applications	9 - 12	1240
<b>ENGLISH</b>		
AP English Lang & Composition* ∞	11 - 12	1361A/1361B or 1361A Alt/1361B Alt
AP English Lit & Composition* ∞	11 - 12	1360A/1360B or 1360A Alt/1360B Alt
Creative Writing* ∞	11 - 12	1315
Drama as Literature*	11 - 12	1316
Dystopian & Utopian Literature*	11 - 12	1362
English 9	9	1302A/1302B
English 10*	10	1330A/1330B
English 11*	11	1333A/1333B or 1333A Alt/1333B Alt
Honors English 9	9	1303A/1303B
Honors English 10*	10	1331A/1331B or 1331A Alt/1331B Alt

Course	Grade	Course#
<b>ENGLISH (continued)</b>		
Literature in Film* ∞	11 - 12	1365
Literature: Giants in Time*	11 - 12	1363
Oral Interpretation, Acting & Directing*	11 - 12	1324
Public Speaking ∞	11 - 12	1325
Real Lives: Memoir/Autobiography*	11 - 12	1336
Senior Literature Seminar*	12	1367
Speech Communication	9 - 10	1332
Stagecraft: Introduction to Theater	9 - 12	1327
The Graphic Novel*	11 - 12	1364
Writing for College ∞	11 - 12	1326
Writing for Publication	9 - 12	1319
<b>EXPERIENTIAL LEARNING</b>		
Career and Employment Opportunities (CEO)	11 - 12	2301A, B, C, D or 2301A Alt/2301B Alt
Mentorship	11 - 12	2300A, B, C, D
Project Pursuit	11 - 12	8400
Youth Apprenticeship	11 - 12	2303
<b>FAMILY &amp; CONSUMER SCIENCES</b>		
Fashion Analysis	9 - 12	1503
Introduction to Elements of Design	9 - 12	1502
Principles of Interior Design*	11 - 12	1504
<b>HEALTH SCIENCE</b>		
Exercise Science*	10 - 12	2003
Health Education	9 - 10	1701
<b>LAUNCH STRANDS</b>		
Advanced Manufacturing Technologies	11 - 12	7800AMT
Business Analytics	11 - 12	7800BA
Data Science & Intelligence for Careers	11 - 12	7800DS
Emerging Trends in IT	11	7800IT-11
Emerging Trends in IT	12	7800IT-12
Engineering Foundations	11	7800EF-11
Engineering Foundations	12	7800EF-12
Foundations of Body Systems & Disease	11 - 12	7800FBS
Future Teachers	11 - 12	7800FT
Future Teachers 2.0	12	7800FT2
Global Business	11	7800GB-11
Global Business	12	7800GB-12
Healthcare Solutions	11 - 12	7800HS
Hospitality Innovation	11 - 12	7800HI
Law and Public Policy	11 - 12	7800LPP
Media Solutions	11	7800MS-11
Media Solutions	12	7800MS-12
Medicine & Healthcare	11 - 12	7800MH
Skilled Building Trades	11 - 12	7800SBT
Business 2.0 ∞	11 - 12	7800BS2
Engineering 2.0	11 - 12	7800EF2
Medicine & Healthcare 2.0	11 - 12	7800MH2

Course	Grade	Course#
<b>LAUNCH COURSE CODES</b>		
Course	Strand	Course #
Advanced Marketing - Tosa	HI	7819A/7819B
Anatomy & Physiology - Tosa	BSD	7827A/7827B
AP Computer Science Principles - Tosa	AMT	7820A/7820B
AP English Lang & Composition*	LPP	7826A/7826B
AP Psychology*	FT	7805A/7805B
AP Statistics*	BA	7806A/7806B
Business & Society	BS2	7823
Business Strategy	GB	7802A/7802B
Crime, Society and the Law	LPP	7825
Culture of Healthcare	HS/MH	7814A/7814B
Current Issues	LPP	7824
Digital Imaging Seminar*	MS	7811A/7811B
Educational Inquiry 1	FT	7816A/7816B
Educational Psychology	FT	7821
English 11	GB/MS	7812A/7812B
Future Makers Capstone - Tosa	AMT	7818A/7818B
Health and Disease - Tosa	BSD	7828A/7828B
International Cuisine - Tosa	HI	7817A/7817B
Intro to Children's/Yng Adult Lit	FT	7822
Light Building Construction - Tosa	SB	7831A/7831B
Math for Data Science	DS	7830A/7830B
Math for Skilled Trades	SB	7832A/7832B
Medical Terminology	MH	7815A/7815B
Mentorship	All	7807A/7807B
PLTW Engineering Design/Develop	EF	7810A/7810B
PLTW Medical Interventions	HS	7813A/7813B
Project Pursuit - Trends in IT	IT	
Python for Data Science	DS	7829A/7829B
Writing for Research	EF/GB/MS	7801A/7801B
<b>LEADERSHIP</b>		
Leadership Principles	9 - 12	8110
<b>MATHEMATICS</b>		
Algebra I	9 - 12	1803A/1803B
Algebra II*	9 - 12	1804A/1804B or 1804A Alt/1804B Alt
AP AB Calculus*	10 - 12	1860A/1860B
AP BC Calculus*	10 - 12	1861A/1861B
AP AB/BC Calculus* Cohort	10 - 12	1860A Cohort/1860B Cohort
AP Statistics*	10 - 12	1862A/1862B
Calculus III*	11 - 12	1817A/1817B
Data Analysis*	10 - 12	1815
Functions and Trigonometry*	10 - 12	1806
Geometry*	9 - 12	1807A/1807B
Honors Algebra II*	9 - 12	1805A/1805B
Honors Geometry*	9 - 12	1808A/1808B
Honors Precalculus*	10 - 12	1810A/1810B
Precalculus*	10 - 12	1809A/1809B
Statistics*	10 - 12	1811

Course	Grade	Course#
<b>MUSIC</b>		
Chamber Choir*	10 - 12	1906A Alt/1906B Alt
Chamber Orchestra*	10 - 12	1909A Alt/1909B Alt
Concert Band*	9 - 12	1901A Alt/1901B Alt
Concert Choir* (Gr. 9 M, Gr 10-12 F)	9 - 12	1903A Alt/1903B Alt
Digital Music Musicians/Non-Musicians	9 - 12	1914
Exploring Music Theory/Composition	11 - 12	1913
Symphonic Band*	10 - 12	1907A Alt/1907B Alt
Symphony Orchestra*	9 - 12	1904A Alt/1904B Alt
Treble Choir* (F only)	9	1902A Alt/1902B Alt
Wind Ensemble*	10 - 12	1905A Alt/1905B Alt
Women's Ensemble*	10 - 12	1908A Alt/1908B Alt
<b>PHYSICAL EDUCATION</b>		
Advanced Team and Individual Sports	10 - 12	2021
Lifeguarding*	15 yrs.	2004
Lifetime Sports*	10 - 12	2015
Outdoor Pursuits*	11 - 12	2006
Personal Fitness and Wellness*+	10 - 12	2016
PE 09	9 - 12	2001
PE Assistant @BCHS*	12	2007
Sports Officiating*	10 - 12	2020
Racquet and Team Sports*	10 - 12	2008
Ultimate Strength and Conditioning*+	10 - 12	2019
Variety Sports*	10 - 12	2013
<b>SCIENCE</b>		
Anatomy Physiology*	10 - 12	2101A/2101B
AP Biology*	10 - 12	2160A/2160B
AP Chemistry*	10 - 12	2161A/2161B
AP Environmental Science*	10 - 12	2162A/2162B
AP Physics*	10 - 12	2164A/2164B
AP Physics I	10 - 12	2165A/2165B
AP Physics II: Algebra-Based	10 - 12	2166A/2166B
AP Physics C*	10 - 12	2164A/2164B
Astronomy & Meteorology	10 - 12	2114
Biology	9 - 12	2102A/2102B
Chemistry*	10 - 12	2105A/2105B
Culture of Healthcare	11 - 12	1505A/1505B
Ecology*	10 - 12	2109
Geology	10 - 12	2115
Honors Biology	9 - 12	2103A/2103B or 2103A Alt/2103B Alt
Honors Chemistry*	10 - 12	2106A/2106B
Marine Biology*	10 - 12	2104
Medical Terminology*	11 - 12	1510A/1510B
Nursing Assistant (CNA) In Person	11 - 12	2116P
Nursing Assistant (CNA) Virtual	11 - 12	2116V
Organic Chemistry*	10 - 12	2107A/2107B
Physics	10 - 12	2111A/2111B
PLTW Biomedical Innovation*	11 - 12	2072A/2072B
PLTW Human Body Systems (HBS)*	9 - 12	2168A/2168B
PLTW Medical Interventions (MI)*	10 - 12	2071A/2071B
PLTW Principles of Biomedical Science (PBS)	9 - 12	2167A/2167B

Course	Grade	Course#
<b>SOCIAL STUDIES</b>		
20th Century American History	10	2202A/2202B or 2202A Alt/2202B Alt
Abnormal Psychology	10 - 12	2210
AP European History*	10 - 12	2260A/2260B or 2260A Alt/2260B Alt
AP Human Geography	9 - 12	2273A/2273B
AP Macro Economics	11 - 12	2261
AP Micro Economics	11 - 12	2262
AP Psychology	10 - 12	2263A/2263B or 2263A Alt/2263B Alt
AP United States History*	11 - 12	2265A/2265B
AP US Government and Politics	11 - 12	2264A/2264B
AP World History	9-12	2266A/2266B
Crime, Society and the Law	10 - 12	2211
Current Issues	10 - 12	2203
Economics	12	2204 or 2204 Alt
Human Geography	10	2212
Modern Society	10 - 12	2207
Principles of American Democracy	12	2208 or 2208 Alt
Psychology	10 - 12	2209
World History	9	2201A/2201B or 2201A Alt/2201B Alt
<b>STUDY HALL</b>		
Study Hall (Terms 1-4)	9 - 12	8600A, 8600B, 8600C, 8600D
Study Hall Alt Days	9 - 12	8600AAlt/8600BAlt
<b>WORLD LANGUAGES</b>		
French 1	9 - 12	1601A/1601B
French 2*	9 - 12	1602A/1602B
French 3*	9 - 12	1603A/1603B
French 4*	10 - 12	1604A/1604B
French 5*	11 - 12	1605A/1605B/1611
German 1	9 - 12	1611A/ 1611B
German 2*	9 - 12	1612A/1612B
German 3*	9 - 12	1613A/1613B
German 4*	10 - 12	1614A/1614B
German 5*	11 - 12	1615A/1615B
Latin 1	9 - 12	1621A/1621B
Latin 2*	9 - 12	1622A/1622B
Latin 3*	9 - 12	1623A/1623B
Latin 4*	10 - 12	1624A/1624B
Latin 5*	11 - 12	1625A/1625B
Mandarin Chinese 1	9 - 12	1641A/1641B
Mandarin Chinese 2*	9 - 12	1642A/1642B
Mandarin Chinese 3*	9 - 12	1643A/1643B
Mandarin Chinese 4*	10 - 12	1644A/1644B
Spanish 1	9 - 12	1631A/1631B
Spanish 2*	9 - 12	1632A/1632B
Spanish 3*	9 - 12	1633A/1633B
Spanish 4*	10 - 12	1634A/1634B
Spanish 5*	11 - 12	1635A/1635B
Spanish 6*	11 - 12	1636A/1636B

# POLICIES

## BLOCK SCHEDULE

Classes at high school run on a four-block schedule. A four-block schedule is so named because there are four class periods a day. Class periods are approximately 90 minutes long. Each class lasts for nine to eighteen weeks. Under this structure, students earn .5 credits per a nine-week class, and one credit for a class that meets for two nine-week terms. There are some exceptions to this structure in that we continue to offer band, orchestra, and choral music throughout the year on an every-other-day basis.

## WEIGHTED GRADES

The District values academic rigor because it increases student achievement, encourages students to stretch to their potential, and contributes to effective transitioning to postsecondary institutions. The District also recognizes that a policy of adding a minor weight to a grade can appropriately motivate more students to pursue academic rigor, which is aimed at their long-term success.

A weight of 0.025 will be added to the cumulative grade point average (GPA) for each completed half-credit within the high school resulting in a total of 0.05 additional weight per-credit course. The courses eligible for weighting are all of the Advanced Placement, Latin IV, Mandarin Chinese 4 and any level 5 or 6 World Language courses.

A course taken through the Early College Credit Program (ECCP) shall have an added weight only if the course is beyond the current course sequence in math and world languages. These specific ECCP courses earning three, four, or five credits shall be eligible for an added weight. A weight of 0.05 shall be added to the GPA after successful completion of each of the designated courses. ECCP courses earning less than three credits shall not be eligible for an added weight.

## ADDING/DROPPING A COURSE

Prior to the start of a term, students may drop any course and add another course in their schedule for one or more of the following reasons:

- Medical needs
- Failure of a class
- Course is needed for graduation or post secondary prerequisite for a course
- Scheduled in an inappropriate course level
- Change in performance in current year requires change to be made in next year's schedule

If a student meets the above criteria, there is space in the class, and the change does not overload another course, then a change can be made.

## DROPPING A COURSE AFTER 3 WEEKS

Dropping any course after the three week marking period into the term to take a study hall will only be permitted if three classes are maintained on a student's schedule. This drop will result in placement into a study hall and an "F" in the course for the term. This grade will be permanently on the transcript unless the course is retaken for a higher grade.

## FULL TIME STUDENT STATUS

Per School Board policy 6112.1, a full-time student in the district shall meet the following minimum requirements:

- A high school student shall be enrolled in six credits per year
- Exception to full-time status may be allowed under certain circumstances for a student involved in, but not limited to, such programs as the following: Individualized Education Plan: Section 504 Plan.

To ensure relevance, appropriate rigor, and engagement, a full time student must be enrolled in at least three academic courses each term and have no more than one study hall.

## NCAA SCHOLARSHIP ELIGIBILITY

For any student who is planning to pursue NCAA eligibility, it is crucial that the student follows these two steps:

- Consult frequently with your school counselor regarding course selections.
- Register with the NCAA Eligibility Center by the end of your junior year. Please follow the link to the website: <https://web3.ncaa.org/ecwr3/>

## CONTROVERSIAL ISSUES POLICY 6144

Open discussion of controversial issues is the heart of the democratic process and shall be included as a part of the curriculum. Through study of controversial issues - political, economic or social, youth develop abilities of critical evaluation which are needed for responsible citizenship. The study of controversial issues should be objective and scholarly, with minimal emphasis on opinion. No political or economic system other than our own democratic system of government shall be advocated by staff.

No student shall be required to read a book or view instructional materials if his/her parent/guardian has objections for moral, religious, and/or political reasons. Adult students who object to material for moral, religious and/or political reasons shall not be required to use the materials for study purposes. Whenever possible, substitute materials shall be provided.

A faculty member, parent/guardian, student or resident may question the appropriateness of instructional materials through a process outlined in Practice Statement 6144.

## HONORS COURSES

Honors Courses are offered by the English, Mathematics and Science Departments. An honors course is a special section of an existing course that is more rigorous in content and performance expectations. Students and their parents should review the course description information carefully to see if there is a match between the demands of the course and the student's interests and abilities. Please note that there is a special drop down policy for honors courses.



### DROPPING FROM AN HONORS TO REGULAR COURSE

Students may drop down from an honors section to a regular section of a course only during the first five days of the course or term. The student may only drop down to a regular section of the same course.

A student may only drop to a regular section after meeting with specified faculty and completing requisite paperwork. The student's grade in the non-honors class will be determined by combining the grades earned in both the honors and non-honors class.

### HONORS DIPLOMA

The Board of Education believes in recognizing students who achieve a 3.5 grade point average and who have taken sufficient courses selected from the courses identified below. The following criteria will be utilized to grant honors diplomas to students:

1. Students must achieve a 3.5 overall grade point average by the end of the seventh semester of high school.
2. Students must earn 6 or more credits by the end of the senior year in courses selected from the following:
  - a. All honor courses
  - b. All advanced placement courses
  - c. All level 5 and 6 World Language courses and Organic Chemistry
  - d. All Dual Enrollment/Transcripted credit courses

### PASS/FAIL OPTION

The Pass/Fail option permits senior students to select courses for a credit with a Pass/Fail grade. Courses eligible for such selection must be beyond the credits required for graduation and cannot count toward the Honors Diploma (Honors, Advanced Placement, Level 5 or 6 World Language, or Organic Chemistry). Students electing the Pass/Fail option are required to complete all of the usual coursework and must receive a course average of 70% or greater to receive the Pass grade. The Pass/Fail option must be selected before the course begins with no changes thereafter. The credit earned with the Pass/Fail option will be included in the transcript, but will not be computed in the grade point average and does not count toward the Honors Diploma. No more than a total of 1.00 credit may be earned. The Pass/Fail option encourages students to explore academic coursework they may otherwise not take.

### COURSE RETAKE

Course Retake provides the student the opportunity to demonstrate increased mastery of the course expectations for a course previously taken. The highest course grade earned will be recorded for transcript and grade point average purposes. All other entries for the same course will be deleted from the transcript and grade point average.

### ACCELERATION

Subject and/or whole grade acceleration information can be found in Policies 5123 and 6142.1

### TALENT DEVELOPMENT/ADVANCED LEARNERS (GIFTED AND TALENTED)

Refer to the [Talent Development website](#) to access the Handbook and/or other resources.

### SPECIAL EDUCATION

Special Education needs are met by the School District of Elmbrook according to the procedures established through Chapter 115 of the State Statutes and the Individuals with Disabilities Education Act (IDEA) of the Federal Statutes. If a student is determined to be a child with a disability and needs specialized instruction, an Individualized Education Plan (IEP) is developed to identify the goals, objectives, and related services the student requires. Placement is a team decision and parents are equal participants on the team.

### STUDENT NONDISCRIMINATION AND STUDENT RELIGIOUS ACCOMMODATIONS

The Board shall include the following statement in all pupil and staff handbooks, course selection handbooks, and other published materials distributed to the public describing school activities and opportunities:

No person shall be denied admission to any public school in the School District of Elmbrook or be denied participation in, be denied the benefits of or be discriminated against in any curricular, co-curricular, pupil services, recreational or other program or activity because of the person's Sex, race, religion, color, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, learning disability, or handicap. The complaint process can be found in the practice statement attached to policy 6005-Equality of Educational Opportunity-Pupil Nondiscrimination/Anti-Harassment.

# NON-COURSE FEES

Note: 2022-23 Registration and User Fees are pending board approval.

## REQUIRED REGISTRATION FEES

### **MATERIAL FEES** **\$105.00**

Material fees will help defray a portion of the cost of textbooks and other consumable supplies and materials for classroom instruction.

#### **Material Fees will be prorated as follows:**

If students enter after the First Quarter, they will pay 75%.

If students enter after the Second Quarter, they will pay 50%.

If students enter after the Third Quarter, they will pay 25%.

## USER FEES - OPTIONAL PARTICIPATION

User fees may be paid at the beginning of the year or within five days after the start of the activity.

**Music, Drama, Clubs, Forensics, Debate (one time)** **\$60.00**

**Athletics (one time)** **\$80.00**

## ASSESSMENT FEES - OPTIONAL PARTICIPATION

**PSAT** **\$18.00**

10th and 11th grade; fees are subject to change.

**AP Testing** **\$100.00**

AP test registration and payments will be handled through totalregistration.net; fees are subject to change.

## POINT OF SALE - OPTIONAL (Fees subject to change)

**Parking Fee** **\$200.00**

\$100.00/semester: \$3.00 for daily pass

**Padlock - Hall Locker or Gym Locker** **\$5.00**

**Transcript Fees** **\$2.00**

**Athletic Activity Card** **\$40.00**

Admission pass to home Athletic Events (WIAA tournaments not included)

**Athletic Gate Prices - Students** **\$4.00/event**

**Athletic Gate Prices - Adults** **\$5.00/event**

**Work Permit (only if under the age of 16)** **\$10.00**

**Non-sufficient Fund Returned Check Service Charge** **\$20.00**

## EXAMPLES OF OTHER VARIABLE FEES

Field Trips

Student Planners

Science Goggles

Instrument Rental Fees

Lost Uniform/Textbook/Student ID/Padlock/Library

Device Repair/Replacement Fee

College Credit Fees

Co-Curricular Fees

# CONTACTS

To discuss your academic and career plan, please contact your school counselor:

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# HIGH SCHOOL Academic & Career Planning Guide

Brookfield Central High School | Brookfield East High School





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The mission of the School District of Elmbrook is to educate and inspire every student to think, to learn and to succeed.

The District's Vision and Core Values inspire the work of our students, staff and community as we prepare all students for life, college and career.

## Elmbrook Scholars are...

### Purpose-Driven Change Agents:

I know who I am. I understand my strengths and passions, and I know I can make a positive difference in the world. I empower and support those around me, and I am constantly finding ways to improve myself.

### Responsible Citizens:

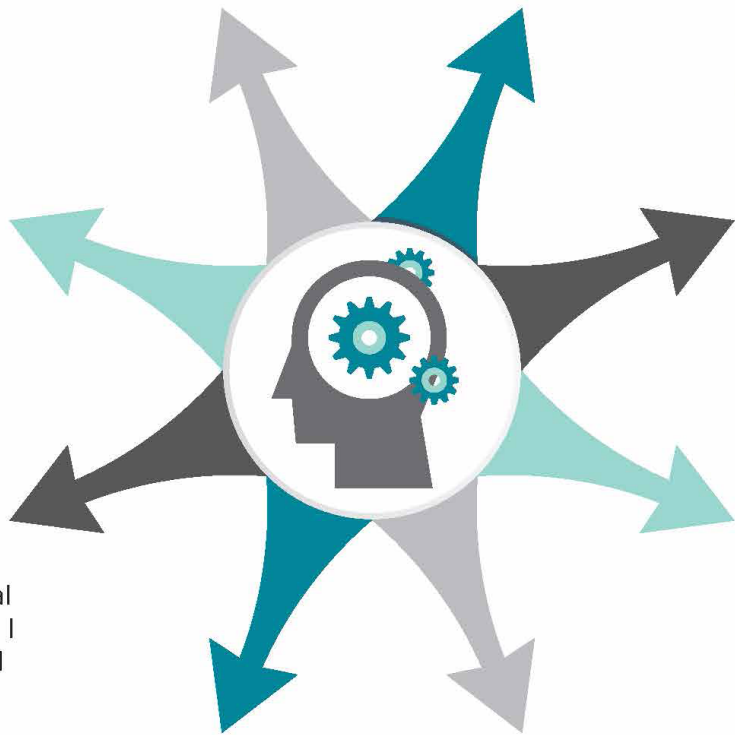
I can think, feel, and act with respect for myself and others. I understand and value other perspectives and a collaborative approach. I can think critically and creatively about the world around me.

### Accomplished Communicators:

I clearly convey my thoughts, questions, emotions, and solutions in multiple settings and formats. I am an active listener and seek to understand.

### Emotionally Intelligent:

I am aware of my emotions and sensitive to those of others. I can work effectively with a variety of people.



### Resilient:

I embrace challenges, persevere and adapt when faced with internal and external obstacles. I am optimistic that I will find solutions to move forward.

### Kind & Grateful:

I am gracious, caring, and kind to others. I demonstrate empathy and compassion for those around me. I am thankful for new experiences and opportunities.

### Intellectually Curious:

I have genuine wonder and inquire about the world around me. I take initiative to advance my knowledge and skills. I am committed to lifelong learning.

### Flexible & Adaptable:

I can adapt to change. I seek and am responsive to feedback. I am able to work effectively in a variety of environments. I value other people's strengths and learn from them.



# HOW TO USE THIS PLANNING GUIDE

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The Elmbrook Schools **High School Academic and Career Planning Guide** is designed to assist students and families in exploring, designing, and refining a program of study throughout their high school experience. A student's program of study should include robust coursework, co-curricular activities, service learning, and career-based learning opportunities. The information in this guide is designed to assist students and families as they develop and refine an academic and career plan that supports academic, social, and emotional growth throughout the high school years.

## **DOCUMENT NAVIGATION**

- Scroll through pages like you would with any PDF document
- Use the links at the bottom of each page to navigate between sections
- Use the links within each Table of Contents page and section heading pages to navigate to programs of study, course listings by department, and specific pages within each section

# HOW TO USE THIS PLANNING GUIDE

## CAREER CLUSTER

There are 16 career clusters

## PATHWAYS

See all the different pathways available within a career cluster.

= Dual Credit Opportunity

## PROGRAM OF STUDY

Helps students visualize a set of options available to set them on a career pathway

## COURSE SEQUENCE

Understand suggested courses to take each year in a program of study

## ELECTIVES

Suggestions of additional courses students could take to further pursue a pathway

## ACTIVITIES

Extracurricular activities and clubs students interested in a pathway may find value in

## DUAL CREDIT

Opportunities within a Program of Study to obtain college credit(s) in addition to HS credit(s)

## CREDENTIALS

Specialized training and certifications that students can pursue within courses related to a Program of Study

## WORK-BASED LEARNING

A selection of work-based and real world experience-based opportunities available to students that relate to the specific Program of Study.

**MARKETING**

The Marketing Cluster includes career opportunities whose processes create, communicate, and deliver value to customers and manage customer relationships in ways that benefit the organization and its stakeholders.

**CAREER PATHWAYS**

- Marketing Communications
- Marketing Management
- Marketing Research
- Merchandising
- Professional Selling

Possible Careers	Where do I want to go?	High School Diploma On-The-Job Training	Certifications/Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
Marketing Communications	• Broadcast • Public Relations • Public Relations Specialist of America	• Business • Marketing • Social Business Management	• Business Administration • Communications Management • Marketing • Public Relations	• Bachelor of Business Administration • Bachelor of Marketing	• Master of Business Administration • Master of Marketing	
Marketing Management	• Retail and Buyer Education Programs • Customer Service	• Business Administration • International Management • Marketing • Small Business Management	• Business Administration • International Management • Marketing • Small Business Management	• Bachelor of Business Administration • Bachelor of Marketing	• Master of Business Administration • Master of Marketing	
Marketing Research	• Market Research • Development and Visual Applications • Sales Training	• Business • Computer Education for Digital Technology • Business • Customer Service • Small Business Management	• Business Administration • Business Management • Marketing • Small Business Management	• Bachelor of Business Administration • Bachelor of Marketing	• Master of Business Administration • Master of Marketing	
Merchandising		• Business Administration • Business Management • Marketing • Small Business Management	• Business Administration • Business Management • Marketing • Small Business Management	• Bachelor of Business Administration • Bachelor of Marketing	• Master of Business Administration • Master of Marketing	
Professional Selling	• Management	• Business • Business Administration • Marketing • Small Business Management	• Business Administration • Business Management • Marketing • Small Business Management	• Bachelor of Business Administration • Bachelor of Marketing	• Master of Business Administration • Master of Marketing	

## CAREER TYPES BY PATHWAYS

Understand different types of jobs available within this career cluster and the education that may be needed to obtain that job.

**Data Science**

**SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY**

Students should consider taking ALL of these options:

- Mathematics:**
  - Honors Pre-Calculus
  - Statistics
  - Data Science
- Computer Science:**
  - Introduction to Computer Science and Game Development
  - AP Computer Science Principles\* and/or
  - AP Computer Science A\*
- Business Analysis Strand:**
  - AP Statistics\*, Business Strategy & Mentorship
- Emerging Trends in IT Strand:**
  - English II/Writing for Research, Project Pursuit: Trends in IT & Mentorship
- Engineering Foundations Strand:**
  - English II/Writing for Research, PTW Engineering Design and Development & Mentorship
- Global Business Strand:**
  - English II/Writing for Research, Business Strategy & Mentorship
- Media Solutions Strand:**
  - English II/Writing for Research, Digital Imaging Seminar & Mentorship

**RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE**

**Business:**

- Software Applications\*

**Work-Based Learning Options:**

- LAUNCH (Work-based mentorship and project-based learning):
  - Business Analytics Strand (Year 3)
  - Data Science and Intelligence for Careers strand (Year 4)
  - Global Business Strand (Year 3)
  - Emerging Trends in IT strand (Year 3)
  - Engineering Foundations strand (Year 3)
  - Youth Apprenticeship
- Health Informatics
- Information Technology, General IT: IT Essentials, Programming & Software Development and information Support and Services, Web & Digital Communications
- Marketing, Marketing Communications, Marketing Research/Competitive Intelligence
- Science, Technology, Engineering, & Mathematics (STEM): Engineering and Technology; Science & Math
- Local Internship
- State-Certified Cooperative Education
- Employability Skills Certificate
- Youth Leadership Certificate

**DUAL COLLEGE CREDIT OPPORTUNITIES**

- AP Statistics
- AP Calculus
- Computer Aided Design (CAD) - Advanced Standing at WCC (If student also completes PTW Intro to Engineering Design Software Applications - WCC)

**ACTIVITIES & CLUBS**

CAREER AWARENESS & CAREERS AND TECHNICAL STUDENT ORGANIZATIONS

- NCA
- FEBA
- HOSA
- Chess Club
- Computer Science National Honor Society
- Math Club
- Mu Alpha Theta

**INDUSTRY-RECOGNIZED CREDENTIALS**

- Autodesk Certified User
- Microsoft Office Specialist (MOS) - any two certifications
- Adobe Certified Associate (ACA)

## COURSE NUMBER

If a course has A and B sections, students must add both numbers to their planner. Courses listed as "Alt" will occur on an alternating A/B day schedule.

## COURSE TITLE

Grade level indication

**CREDITS**  
1.0 credit courses typically run for a full semester (2 terms).  
0.5 credit courses typically run for one, 9-week term.

Course Title	Grade Level	Credit/Semester	Repeatable	NCAA
AP English Literature and Composition	11-12	1.0	No	Yes

**1360A/1360B**

**Prerequisite(s)**  
English 10  
English 11

**Strongly Recommended**  
AP English Language and Composition

In addition to the study of challenging literature, composition is an integral part of this rigorous, college-level course. Short-term writing goals include understanding the skills and strategies necessary to score well on the AP test. Long-term goals including enabling students to learn at a rate commensurate with their ability; to deal with material that intellectually mature students find engaging; to refine reading and writing skills important for success; not only in college but also in the professional world; to cultivate habits of reading, writing, and thinking that characterized life-long learning and enjoyment.

**WEIGHTED GRADE**

## WEIGHTED GRADE

If the credit value of a course is weighted on the student transcript due to its rigor, it will be indicated below the course description.

Indicates if a course is repeatable for credit (YES/NO)

Indicates if a course is recognized as a core course for NCAA student-athlete initial-eligibility (YES/NO)

**COURSE PREREQUISITES**  
Understand the course(s) that are required or suggested to be completed prior to enrollment

## COURSE DESCRIPTION

## GRADUATION REQUIREMENTS

Details regarding what is required to graduate are included under each department heading in the Course Offerings section.

**ENGLISH**

Graduation Requirements: 4.0 credits including English 9 or Honors English 9 (1 credit), English 10 or Honors English 11 or AP Language & Composition (1 credit), 2 English Electives (0.5 credit each)

Course Title	Grade Level	Credit/Semester	Repeatable	NCAA
AP English Language and Composition	11-12	1.0	No	Yes

**1361A/1361B**

**Prerequisite(s)**  
English 10  
English 11

**Strongly Recommended**  
AP English Language and Composition

This course will cultivate the reading and writing skills students need for college success while preparing them for the AP Language and Composition test. The course challenges students to become curious, critical readers of diverse texts and flexible, reflective writers addressing diverse audiences and purposes. Through analysis of nonfiction and fiction genres and the composition of research-based essays, this course will deepen and expand students' understanding of how written language functions rhetorically. This course is recommended for junior and senior students.

**WEIGHTED GRADE**

**Drama as Literature**  
Grade Level: 11-12 | Credit/Semester: 0.5 | Prerequisite(s): None

Drama as Literature is a study of drama from early Greek and Roman inventors to 19th-century American dramatists. Possible readings include Euripides, Shakespeare, Moliere, Twain, Williams, Arthur Miller, Henrik Ibsen, and American musicals may be explored. We will explore author's themes or purposes, and historical context to act in class.

**Dystopian and Utopian Literature**  
Grade Level: 11-12 | Credit/Semester: 0.5 | Prerequisite(s): None

Humans have always sought after ways to improve their lives. Some have been mutually beneficial groups. Some have been failed utopias, or just altogether different worlds. Students will be involved in a variety of activities that will be aimed at analyzing the role of the individual in society. By examining the concepts necessary for them to be able to understand their role in society.

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# DEFINITIONS

Throughout this **High School Academic and Career Planning Guide**, Elmbrook School District uses the following terms to help guide students through the selection of coursework and to support their decision making.





<b>Career Cluster</b>	Refers to the groups of the 16 nationally recognized occupations and industries that have a set of foundational knowledge and skills in common
<b>Career Pathway</b>	Multi-year program of academic and technical study that prepares students for a full range of post-secondary options within each career cluster. Career pathways provide a context for exploring career options at all levels of education. Career pathways link student learning to the knowledge and skills needed for future education and employment.
<b>Program of Study</b>	A coordinated, non-duplicative sequence of academic and technical content and the secondary and postsecondary level. Each program of study incorporates challenging, state-identified academic standards; addresses academic and technical knowledge, as well as employability skills; and is aligned to the needs of industries in the state and region.
<b>Sequence of Courses</b>	Recommended sequence of courses within each program of study that provide students opportunities to explore and develop skills within a specified career area.
<b>Related Electives</b>	Within a program of study, these courses provide students additional opportunities within the specified career area or opportunities to develop skills and knowledge in a closely related career area.
<b>Dual Credit</b>	High School students may earn both high school and postsecondary credit from a technical college or a four-year college university for successfully completing a college level course. These courses are often referred to as “Dual Credit”. Eligible courses within this guide are often noted with the letters TC, CIS or CAPP in the course description. Additional fees may apply.
<b>Work-Based Learning</b>	Extended educational opportunities in which students engage in authentic and relevant work aligned with a career pathway. These experiences allow students to participate in a professional work environment and assist with career skill development and decision-making. These opportunities may provide varied levels of support, depending upon students’ individual needs
<b>Credentials</b>	Credentials awarded to students by an independent third party verifying qualifications or competencies in a career skill area. Industry-recognized certifications are sought or accepted by employers as a recognized, preferred or required credentials for recruitment, screening, hiring, retention or advancement purposes of their employees.



# 2023-24 NEW COURSES

Department	Course Name	Grade(s)	Course Number	Credits
Applied Technology & Engineering	Introduction to Digital Electronics and Programming	9-12	1041	0.5
Applied Technology & Engineering	PLTW: Civil Engineering and Architecture 	9-12	1040A/1040B	1.0
Applied Technology & Engineering	Robotics and Automation	9-12	2172A/2172B	1.0
Computer Science	Cybersecurity	9-12	1244	0.5
Computer Science	Emerging Trends in IT	9-12	1264A/1264B	1.0
Computer Science	Introduction to Computer Science	9-12	1246	0.5
Computer Science	Unity Game Development	9-12	1248	0.5
Computer Science	Web Design	9-12	1240	0.5
World Language	Spanish in Healthcare	10-12	1637A/1637B	1.0
Non-Department Specific	Architecture and Construction Seminar & Youth Apprenticeship	11-12	2303C	0.5-1.5
Non-Department Specific	Arts/AV/Technology & Communications Seminar & Youth Apprenticeship	11-12	2303A	0.5-1.5
Non-Department Specific	Business/Finance/Marketing Seminar & Youth Apprenticeship	11-12	2303B	0.5-1.5
Non-Department Specific	IT Seminar & Youth Apprenticeship	11-12	2303IT	0.5-1.5
Non-Department Specific	STEM Seminar & Youth Apprenticeship	11-12	2303S	0.5-1.5
Non-Department Specific	Transportation, Distribution, Logistics Seminar & Youth Apprenticeship	11-12	2303T	0.5-1.5

## Course Revisions

22-23 Course Name	23-24 Revision
Automotive Technology I	Now "Auto Service Fundamentals A"
Automotive Technology II	Now "Auto Service Fundamentals B 
Building Construction I	Now "Building Construction and Basic Carpentry Theory 1"
Building Construction II	Now "Building Construction and Basic Carpentry Theory 2"
Business Strategy (LAUNCH) 	Now available for Dual Enrollment with UW-Oshkosh CAPP
Notetaking & Study Skills	Formerly in Business Department, now in English Department. Does not count toward English graduation requirements.
PE Assistant	This course is now PASS/FAIL and will not count in calculating GPA
PLTW: Robotics and Automation	Now "PLTW: Computer Integrated Manufacturing and Automation 
Python for Data Science (LAUNCH) 	Now available for Dual Enrollment with UW-Whitewater
Small Engines	Now "Power Systems: Small Engine and Auto"
Student Technology Team	This course is now PASS/FAIL and will not count in calculating GPA
Tech Assistant	This course is now PASS/FAIL and will not count in calculating GPA



# ACADEMIC & CAREER PLANNING

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## PROCESS OVERVIEW ..... 9

- Student Outcomes by Grade Level
- Graduation Credit Requirements
- My Academic & Career Planning 4-Year Worksheet

# ACADEMIC & CAREER PLANNING OVERVIEW

Academic and Career Planning (ACP) is a self-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post-secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

## Academic & Career Planning is:

- A student driven vision of personal future goals
- Based on deep understanding and reflection of strengths, interests, values and learning styles
- Connecting goals to collect career exploration and planning and preparing a personal plan for achieving their vision and goals. Students build and grow their plan from one year to the next as they practice setting goals and revising their own Academic and Career Plan.
- Supported by meaningful adult relationships (staff, counselors, parents/guardians, community members)



# STUDENT OUTCOMES BY GRADE LEVEL

9<sup>th</sup>  
GRADE

## AS A HIGH SCHOOL FRESHMAN, I CAN...

- describe and value my personal strengths
- identify my career clusters and career pathways of interest
- evaluate class rigor and make connections to my postsecondary options
- develop short and long term goals based upon my expanding/narrowing interests and self discovery.
- purposefully engage in academic and extracurricular experiences/activities that will assist in developing my strengths and interests and whole self.

10<sup>th</sup>  
GRADE

## AS A HIGH SCHOOL SOPHOMORE, I CAN...

- describe and value my personal strengths
- identify my career clusters and career pathways of interest
- purposefully engage in academic opportunities and extracurricular activities that will assist in developing my strengths and interests
- revise short and long term goals based upon my expanding/narrowing interests and self discovery

11<sup>th</sup>  
GRADE

## AS A HIGH SCHOOL JUNIOR, I CAN...

- describe and value my personal strengths
- research and analyze post-secondary options that align to my skills and interests
- appraise the rigor of and my achievement in coursework and outside school activities along with the impact on my postsecondary options
- purposefully engage in academic learning and extracurricular activities that will further develop my strengths and interests
- critique and revise (if appropriate) short and long term goals based upon my changing interests, passions, and skills.

12<sup>th</sup>  
GRADE

## AS A HIGH SCHOOL SENIOR, I CAN...

- describe and value my personal strengths
- appraise postsecondary options in light of my academic and personal skills, interests, and goals.
- evaluate the rigor and my achievement in coursework, extracurricular, and other outside activities and their impact on my postsecondary options
- critique my plan to ensure it incorporates my talents, strengths, passions, and skills in order to achieve relevant short and long term goals and outcomes.

# GRADUATION CREDIT REQUIREMENTS

The information in this guide is intended to help students in their course selections for the upcoming academic year. Selections should be made with a great deal of thought because many of the courses offered in the upcoming year will be based on the selections students make. Student high school and post high school plans should be kept in mind when making their course selections. High school counselors are available to assist students course selection. The next page will serve as a worksheet for you in determining which required courses you have yet to take. Students must register for a minimum of 3 credits per semester, 6 credits per year.

<b>ARTS</b>	<b>TOTAL CREDITS:</b>	<b>1.0</b>
Fine or Practical Arts Courses		1.0
<b>BUSINESS</b>	<b>TOTAL CREDITS:</b>	<b>0.5</b>
Personal Finance		0.5
or		
Financial Management and Investing		0.5
<b>ENGLISH</b>	<b>TOTAL CREDITS:</b>	<b>4.0</b>
English 9 or Honors English 9		1.0
English 10 or Honors English 10		1.0
English 11 or AP English Language & Composition		1.0
English Elective 1		0.5
English Elective 2		0.5
<b>HEALTH</b>	<b>TOTAL CREDITS:</b>	<b>0.5</b>
<b>MATHEMATICS</b>	<b>TOTAL CREDITS:</b>	<b>3.0</b>
<b>PHYSICAL EDUCATION</b>	<b>TOTAL CREDITS:</b>	<b>1.5</b>
PE 09		0.5
Physical Education Elective 1		0.5
Physical Education Elective 2		0.5
<b>SCIENCE</b>	<b>TOTAL CREDITS:</b>	<b>3.0</b>
<b>SOCIAL STUDIES</b>	<b>TOTAL CREDITS:</b>	<b>3.5</b>
World History or AP World History		1.0
Human Geography or AP Human Geography*		0.5
20th Century American History or AP U.S. History		1.0
Principles of American Democracy or AP US Government and Politics**		0.5
Economics or AP Micro Economics or AP Macro Economics		0.5
<b>ELECTIVES***</b>	<b>TOTAL CREDITS:</b>	<b>7.0</b>
<b>TOTAL CREDITS REQUIRED FOR GRADUATION:</b>		<b>24</b>

*\*Beginning with the graduating class of 2026*

*\*\*AP United States Government and Politics is a 1 credit course and needs to be completed in its entirety to fulfill graduation requirements.*

*\*\*\* 7.0 credits of electives begins with the graduating class of 2026. For the graduating classes of 2022-2025, 7.5 credits are required.*

# MY ACP 4-YEAR WORKSHEET

Use these pages to plan out your high school courses. Print these pages for your use and/or records. When deciding which courses to select, students should first focus on meeting graduation requirements, then include courses that fit within their academic and career plan and post-secondary goals.

GRADE 9				
<b>Required Courses:</b>		English:		
		Mathematics:		
		Physical Education:		
		Science:		
		Social Studies:		
		Electives:		
BLOCK	SEMESTER 1		SEMESTER 2	
	TERM 1	TERM 2	TERM 3	TERM 4
1				
2				
3				
4				
<b>Alternate Classes:</b>				

GRADE 10				
<b>Required Courses:</b>		English:		
		Mathematics:		
		Physical Education:		
		Science:		
		Social Studies:		
		Electives:		
BLOCK	SEMESTER 1		SEMESTER 2	
	TERM 1	TERM 2	TERM 3	TERM 4
1				
2				
3				
4				
<b>Alternate Classes:</b>				

## GRADE 11

<b>Required Courses:</b>	English:
	Mathematics:
	Physical Education:
	Science:
	Social Studies:
	Electives:

BLOCK	SEMESTER 1		SEMESTER 2	
	TERM 1	TERM 2	TERM 3	TERM 4
1				
2				
3				
4				

<b>Alternate Classes:</b>	
---------------------------	--

## GRADE 12

<b>Required Courses:</b>	English:
	Mathematics:
	Physical Education:
	Science:
	Social Studies:
	Electives:


BLOCK	SEMESTER 1		SEMESTER 2	
	TERM 1	TERM 2	TERM 3	TERM 4
1				
2				
3				
4				

<b>Alternate Classes:</b>	
---------------------------	--





# SIGNATURE LEARNING OPPORTUNITIES

 Throughout this Academic and Career Planning Guide, the Elmbrook infinity symbol denotes courses that may provide an opportunity for college credit.

## **ELMBROOK PROMISE**

Serving students to access college coursework while in high school. Empowering students to be consumers of their education. Discovering pathways and opening doors to opportunities in the future. Our goal is to offer the potential for up to 30 college credits upon high school graduation.

## **SIGNATURE LEARNING OPPORTUNITIES**

- Advanced Placement
- Project Lead the Way
- Elmbrook-Instructed Dual Credit
- Outside-Instructed Dual Credit
- Off-Campus Opportunities
- Career Based Learning Opportunities

# ADVANCED PLACEMENT

Advanced Placement (AP) courses are offered by the Art, Computer, English, Mathematics, Science and Social Studies departments. These courses offer curriculum defined by The College Board. Advanced Placement courses are equivalent to college level curriculum and require approximately nine to ten hours of out-of-class time per week. The Advanced Placement Examinations are offered in the spring and may be taken by any high school student as well as those enrolled in the Advanced Placement course. Based on their Advanced Placement test score, students may be eligible for college credit or meet postsecondary prerequisite course requirements upon enrollment. All Advanced Placement courses are weighted. There is no drop down for AP Courses.

## Advanced Placement

Department	Course #	Course Name	Credits	Prerequisite(s)
Art	1164	Art & Design (Repeatable Course)	1.0	At least 4 art classes including a level II course and/or Art Seminar or consent of instructor with portfolio
Art	1160A/1160B	Art History	1.0	None
Computer Science	1260A/1260B	Computer Science A	1.0	Algebra II (concurrent) or consent of instructor
Computer Science	1261	Computer Science Principles	1.0	None
English	1361A/1361B	English Language and Composition	1.0	English 10
English	1360A/1360B	English Literature and Composition	1.0	English 10 and English 11. AP English Language and Composition is strongly recommended
Mathematics	1860A/1860B	AB Calculus	1.0	Precalculus, Honors Precalculus
Mathematics	1861A/1861B	BC Calculus	1.0	Honors Precalculus or AP AB Calculus
Mathematics	1862A/1862B	Statistics	1.0	Honors Algebra II or Statistics and Functions and Trigonometry
Science	2162A/2162B	Environmental Science	1.0	Successful completion of Biology and Chemistry strongly recommended
Science	2160A/2160B	Biology	1.0	Successful completion of Biology and Chemistry strongly recommended
Science	2161A/2161B	Chemistry	1.0	Successful completion of or concurrent with Algebra II and Chemistry
Science	2165A/2165B	Physics I	1.0	Algebra II or concurrent enrollment
Science	2166A/2166B	Physics II: Algebra Based	1.0	None
Science	2164A/2164B	Physics C	1.0	Physics or AP Physics I and AP Calculus or concurrent enrollment in AP Calculus
Social Studies	2260A/2260B	European History	1.0	None
Social Studies	2273A/2273B	Human Geography	1.0	None
Social Studies	2261	Macro Economics	0.5	None
Social Studies	2262	Micro Economics	0.5	None
Social Studies	2263A/2263B	Psychology	1.0	None
Social Studies	2264A/2264B	United States Government & Politics	1.0	None
Social Studies	2265A/2265B	United States History	1.0	None
Social Studies	2266A/2266B	World History	1.0	None
N/A - AP Capstone	7901A/7901B	Research	1.0	Advanced Placement Seminar
N/A - AP Capstone	7902A/7902B	Seminar	1.0	None

# PROJECT LEAD THE WAY

Project Lead the Way (PLTW) courses are offered by the Applied Technology and Engineering and Science departments, as well as in LAUNCH. Dependent upon the PLTW course, testing scores and institution of higher education, students may be eligible for college credit or meet postsecondary prerequisite course requirements upon enrollment. Students/families may visit <https://www.pltw.org/experience-pltw/student-opportunities> to determine transferability of PLTW credit. All PLTW courses are weighted. There is no drop down for PLTW Courses.

## Project Lead the Way (PLTW)

Department	Course #	Course Name	Credits	Prerequisite(s)
ATE	2169A/2169B	Aerospace Engineering	1.0	Geometry, Principles of Engineering or Physics
ATE	1040A/1040B	Civil Engineering & Architecture	1.0	None
ATE	2170A/2170B	Computer Integrated Manufacturing & Automation	1.0	None
ATE	1039A/1039B	Engineering Design & Development	1.0	Previous completion of a PLTW foundations course
ATE	1035A/1035B	Introduction to Engineering Design	1.0	None
ATE	1037A/1037B	Principles of Engineering	1.0	Geometry, Intro to Engineering Design
Science	2072A/2072B	Biomedical Innovation	1.0	None
Science	2168A/2168B	Human Body Systems	1.0	None
Science	2071A/2071B	Medical Interventions	1.0	None
Science	2167A/2167B	Principles of Biomedical Science	1.0	None

# ELMBROOK-INSTRUCTED DUAL CREDIT

High School students may earn both high school and postsecondary credit from a technical college or a four-year college university for successfully completing a college level course. These courses are often referred to as “Dual Credit”. Eligible courses within this guide are often noted with the letters TC, CIS or CAPP in the course description.

The courses listed below are taught by Elmbrook teachers who are accredited at institutions of higher education. Additional fees may apply to obtain college credit for these courses. Fees will be assessed either through Infinite Campus or directly between the institution and student/family.

Additional college admissions steps are required to enact dual enrollment option. Families are strongly encouraged to use Transferology.com to determine transferability of college credits from the institution awarding the credit to the institution student plans to attend after high school graduation.

## APPLIED TECHNOLOGY & ENGINEERING

### Auto Service Fundamentals B 1031

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Auto Service Fundamentals A (previously known as Automotive Technology I)

Institution: Waukesha County Technical College  
College Course Number: 602-107 - Auto Service Fundamentals  
Transcripted Credits: 2

## ART

### Elmbrook Graphic Design Academy

The Elmbrook Graphic Design Academy provides the opportunity for students in grades 11-12 to earn dual credit for courses in the field of graphic design. Students have the option to take the courses all in one year or in two years. If students successfully complete all four Elmbrook Graphic Design Academy courses, they may also take Integrated Digital Production at WCTC (Start College Now application and additional steps required) to receive their Digital Production Certificate. This series of five courses is the first quarter of requirements to receive an Associate Degree in Graphic Design.

**Students interested in pursuing Elmbrook Graphic Design Academy should enter course number 1170GDA Graphic Design Academy Interest into the “Practical/Fine Arts” area of the Infinite Campus Academic Planner.** This will let Elmbrook schedulers know the student plans to participate in the full program. **The student should also add all of the following individual courses into their Academic Planner under the Practical/Fine Arts section:**

- 1122 - Digital Illustration
- 1170 - Design Drawing & Color Theory
- 1172 - Page Layout/InDesign
- 1173 - Image Editing/Photoshop

### Design Drawing & Color Theory 1170

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Institution: Waukesha County Technical College  
College Course Number: 201-118 - Design Drawing & Color Theory  
Transcripted Credits: 3

### Digital Illustration 1122

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Drawing I or Digital Imaging I

Institution: Waukesha County Technical College  
College Course Number: 204-121 - Digital Illustration  
Transcripted Credits: 3

### Image Editing/Photoshop 1173

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Institution: Waukesha County Technical College  
College Course Number: 204-131 - Image Editing/Photoshop  
Transcripted Credits: 3

### Page Layout/InDesign 1172

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Institution: Waukesha County Technical College  
College Course Number: 204-113 - Page Layout/InDesign  
Transcripted Credits: 3

## BUSINESS

### Business & Society **7823**

**Grade Level** 12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Successful prior completion of any LAUNCH strand

Institution: UW-Milwaukee  
College Course Number: BUS ADM 200  
College Credits: 3  
Estimated Fee: \$500

### Business Strategy **7802**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

*This course is only available through the LAUNCH Analytics or Global Business Strands.*

Institution: UW-Oshkosh (CAPP)  
College Course Number: Business 198 - Introduction to Business  
College Credits: 3  
Estimated Fee: \$300

### Financial Management & Investing **1211**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Institution: UW-Oshkosh (CAPP)  
College Course Number: Business 231 - Personal Finance  
College Credits: 3  
Estimated Fee: \$300

## COMPUTER SCIENCE

### Python for Data Science **7829**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

*This course is only available through the LAUNCH Data Science & Intelligence for Careers Strand.*

Institution: UW-Whitewater  
College Course Number: COMP SCI 170 - Introduction to Python Programming  
College Credits: 3  
Estimated Fee: \$300

## ENGLISH

### Creative Writing **1315**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
CAPP Credit Prerequisite: Writing for College

Institution: UW-Oshkosh (CAPP)  
College Course Number: English 204 - Introduction to Creative Writing  
College Credits: 3  
Estimated Fee: \$300

### Literature in Film **1365**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
CAPP Credit Prerequisite: Writing for College

Institution: UW-Oshkosh (CAPP)  
College Course Number: English 231 - Literature and Film  
College Credits: 3  
Estimated Fee: \$300

### Public Speaking **1325**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Institution: UW-Oshkosh (CAPP)  
College Course Number: Communication 111 - Introduction to Public Speaking  
College Credits: 3  
Estimated Fee: \$300

### Writing for College **1326**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Institution: UW-Oshkosh (CAPP)  
College Course Number: Writing 101 - First-Year College Writing  
College Credits: 3  
Estimated Fee: \$300

## MATHEMATICS

### Calculus III 1817A/1817B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** AP BC Calculus

Institution: UW-Oshkosh (CAPP)  
College Course Number: Math 273 - Calculus III  
College Credits: 4  
Estimated Fee: \$400

### Data Analysis 1815

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Statistics

*Student must also take CAPP Statistics to obtain college credit.*

Institution: UW-Oshkosh (CAPP)  
College Course Number: Math 109 - Elementary Statistics  
College Credits: 3  
Estimated Fee: \$300

### Precalculus 1809A/1809B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Algebra II or Algebra II and Functions & Trigonometry (If Functions & Trigonometry is taken concurrently with Precalculus, it must be taken first or third term)

Institution: UW-Oshkosh (CAPP)  
College Course Number: Math 108 - Pre-Calculus  
College Credits: 5  
Estimated Fee: \$500

### Statistics 1811

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I

*Student must also take CAPP Data Analysis to obtain college credit.*

Institution: UW-Oshkosh (CAPP)  
College Course Number: Math 109 - Elementary Statistics  
College Credits: 3  
Estimated Fee: \$300

## SCIENCE

### Culture of Healthcare 1505A/1505B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

*This course is only available through the LAUNCH Medicine & Healthcare Strand..*

Institution: Waukesha County Technical College  
College Course Number: 501-104 - Culture of Healthcare  
Transcripted Credits: 2

### Medical Terminology 1510A/1510B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Biology or concurrent enrollment

*This course is only available through the LAUNCH Medicine & Healthcare Strand..*

Institution: Waukesha County Technical College  
College Course Number: 501-101 - Medical Terminology  
Transcripted Credits: 3

## SOCIAL STUDIES

### Educational Inquiry 1: Critical Perspectives on Education 7816A/7816B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

*This course is only available through the LAUNCH Future Teachers Strand.*

Institution: Marquette University  
College Course Number: EDUC 1000  
College Credits: 3  
Estimated Fee: \$300

## WORLD LANGUAGE

### French 5 1605A/1605B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 4

Institution: UW-Oshkosh (CAPP)  
College Course Number: French 204 - Intermediate Structure and Expression (French)  
College Credits: 5  
Estimated Fee: \$500

## German 5

### 1615A/1615B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** German 4

Institution: UW-Oshkosh (CAPP)  
 College Course Number: German 204 - German Language and Culture IV  
 College Credits: 5  
 Estimated Fee: \$500

## Latin 4

### 1624A/1624B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 3

Institution: University of Minnesota (CIS)  
 College Course Number: LAT 2002 - Intermediate Latin Prose  
 College Credits: 4  
 Estimated Fee: \$145

## Latin 5

### 1625A/1625B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 4

Institution: University of Minnesota (CIS)  
 College Course Number: LAT 2002 - Intermediate Latin Prose  
 College Credits: 4  
 Estimated Fee: \$145

## Mandarin Chinese 4

### 1644A/1644B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Mandarin Chinese 3

Institution: UW-Oshkosh (CAPP)  
 College Course Number: Chinese 210 - Intermediate Chinese  
 College Credits: 4  
 Estimated Fee: \$400

## Spanish 5

### 1635A/1635B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 4

Institution: UW-Oshkosh (CAPP)  
 College Course Number: Spanish 204 - Intermediate Structure and Expression II  
 College Credits: 5  
 Estimated Fee: \$500

## Spanish 6

### 1636A/1636B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 4

Institution: UW-Oshkosh (CAPP)  
 College Course Number: Spanish 312 - Advanced Spanish Grammar  
 College Credits: 5  
 Estimated Fee: \$500

# OUTSIDE-INSTRUCTED DUAL CREDIT

High School students may earn both high school and postsecondary credit from a technical college or a four-year college university for successfully completing a college level course. These courses are often referred to as “Dual Credit”. Eligible courses within this guide are often noted with the letters TC, CIS or CAPP in the course description.

The courses listed below are taught by professors at the respective institutions indicated. Course structures vary and may occur in person or virtually. Elmbrook School District has contracted with these institutions to provide opportunities that are convenient with students’ high school schedules. Fees for these courses are typically paid by the school district. Additional paperwork required through the Early College Credit Program and Start College Now. Deadlines for these courses occur one semester prior to enrollment. NEW! All of these courses are available for selection in the Infinite Campus Academic Planner.

## COMPUTER SCIENCE

### Data Structures **87106**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** CS 1021 - Software Development II or Equivalent  
Exam score of 4+ in AP Computer Science A

*Minimum course enrollment required.*

Institution: Milwaukee School of Engineering (ECCP)  
College Course Number: CSC 1120 - Graphical Interfaces and  
Data Structures

College Credits: 4

This course covers the organization of data and the algorithms that act upon them. The topics of arrays, linked lists, stacks, queues, trees, sets, and hash tables are introduced. Fundamentals of algorithm performance are also introduced, with an emphasis placed on time complexity analysis. Laboratory activities include implementation of data structures as well as the application of data structures from standard libraries.

Windows, Mac, or Linux computer required.

### Software Tools and Process **87252**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Data Structures

*Minimum course enrollment required.*

Institution: Milwaukee School of Engineering (ECCP)  
College Course Number: SWE 2710 - Software Tools and Process  
College Credits: 4

Windows, Mac, or Linux computer required.

## MATHEMATICS

### Differential Equations **870215**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** CAPP Calculus III - DE

*Minimum course enrollment required.*

Institution: Marquette University (ECCP)  
College Course Number: Math 2451 - Differential Equations  
College Credits: 4

Methods and techniques applicable to first order, nth order, and systems of first order differential equations. Eigenvalues, eigenvectors, the Wronskian, Laplace transforms, linearization and phase portraits.

## SCIENCE

### Nursing Assistant - CNA **2116P (In Person)** **2116V (Blended)**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Institution: Gateway Technical College (SCN)  
College Course Number: 543-200 - Nursing Assistant  
Limited Term

College Credits: 2

The Nursing Assistant Limited Term program prepares students for employment as nursing assistants. The program also prepares students for other health-related programs. During the 75-hour course, students will be required to demonstrate the following skills under the supervision of a licensed nurse: communication, basic nursing assistant and personal care skills, attention to client’s rights, and care of clients with dementias. The program is recognized by the Wisconsin Department of Health Services as a nurse-aide training program. Upon successful completion of the program, the student is eligible to take the Wisconsin Nursing Assistant competency evaluation for inclusion on the Wisconsin Nurse Aide Registry and employment in nursing homes, hospitals, home health agencies, hospices, CBRF’s, assisted living centers and homes for the developmentally disabled.



## SOCIAL STUDIES

### Educational Psychology 7821

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

*This course is available through the LAUNCH Future Teachers Strand.*

Institution: Marquette University (ECCP)  
 College Course Number: EDUC 1001 - Psychological Development: Children and Adolescents

College Credits: 3

Applies psychological principles of child and adolescent development while critically examining variables (gender, socioeconomic status, race, ethnicity, culture and language) that have an impact on physical, cognitive, social, emotional and moral developmental outcomes. Twenty (20) hours of service learning is required.

### Intro to Special Education 7833

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

*This course is available through the LAUNCH Future Teachers Strand.*

Institution: UW-Whitewater (ECCP)  
 College Course Number: Special Education 205 - Introduction to Special Ed.

College Credits: 3

A survey course designed to familiarize students with a wide range of disabilities, including the psychological, physiological, and educational problems that confront persons with intellectual disabilities, learning disabilities, gifts and talents, emotional or behavioral disorders, autism, speech impairments, auditory impairments, visual impairments, and orthopedic and neurological impairments. The course provides a foundation for interacting with individuals throughout the lifespan and addresses how the referral/placement processes can discriminate against marginalized populations or facilitate inclusion.

### Instructional Design/Teaching 7834

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	MU EDUC 1000 and MU EDUC 1001						

*This course is available through the LAUNCH Future Teachers Strand.*

Institution: Marquette University (ECCP)  
 College Course Number: EDUC 2001 - Teaching Practice 1: Instructional Design and Teaching Models

College Credits: 3

An introduction to and opportunity for practice in the fundamental skills necessary for effective teaching in varied contexts of practice (K-12 schools, community agencies, businesses). Field experiences required.

# OFF-CAMPUS OPPORTUNITIES

## WCTC Dual Enrollment Academy

WCTC'S Dual Enrollment Academy (DEA) is designed to give high school seniors (apply during junior year in high school) a jump start in high-demand occupations, awarding participants with a WCTC certificate upon successful completion along with earning high school credits. High school students will spend the majority of their school day, both the fall and spring semesters of their senior year, at WCTC. Prospective students should have a strong interest in pursuing a career in their chosen program area. Students must be in good academic standing with a minimum 2.0 high school GPA and also meet other WCTC program requirements. Parental and high school approval is required for a student to be accepted into the program. The District's responsibility to pay for tuition, fees, and books and other necessary materials is limited to one program in the Dual Enrollment Academy Program. Visit [www.wctc.edu/dual-enroll](http://www.wctc.edu/dual-enroll) for more information.

### Dual Enrollment Academy Program Areas

- Automation Systems (Robotics)
- Building Construction Trades
- Building Construction Trades - Electrical Apprenticeship Emphasis
- Criminal Justice Studies
- Early Childhood Education Preschool (Registry Credential)
- Firefighter/EMT
- IT Systems Specialist
- Pre-Nursing
- Tool and Die/CNC
- Welding/Fabrication

## WCTC Excelerate Program

Ready, Set, Excelerate!

Most WCTC programs are now open to qualified high school juniors and seniors through WCTC Excelerate. As an Excelerate student, you can...

- Earn high school and college credit at the same time, potentially at no cost to you
- Work toward an associate degree or technical diploma before you graduate from high school
- Gain access to priority course registration, academic advising, new student orientation and more
- Get a taste of college life and build a solid foundation for a bachelor's degree and your future career

Students will apply to the program at WCTC and Elmbrook School District will pay for tuition, fees, and books through the

Start College Now program. Students will need to apply for Start College Now courses prior to each semester. Requests for Fall courses are due March 1st and requests for Spring courses are due October 1st. For information about Excelerate, visit <https://www.wctc.edu/academics/high-school-dual-credit/excelerate.php>.



## WCTC Program Cohorts

Earn your Technical Diploma and/or Associate Degree while in high school! These are one- or two-year programs held during 1st and 2nd block. Courses are a combination of in-person at WCTC, virtual and asynchronous. For more information about these programs, please visit the Elmbrook Schools website. To indicate your interest in pursuing one of these opportunities, please add one of the following course numbers to your Infinite Campus Academic Planner:

### Business Management

2401

#### Year 1:

#### Customer Service Specialist Technical Diploma

- Fall '23 = 4.5 HS credits (14 college credits)
- Spring '24 = 3.5 HS credits (12 college credits)

#### Year 2:

#### Business Management Associate Degree

- Fall '24 = 3.25 HS credits (10 college credits)
- Spring '25 = 4 HS credits (12 college credits)

### Marketing

2402

#### Year 1:

- Fall '23 = 3.5 HS credits (11 college credits)
- Spring '24 = 3.25 HS credits (11 college credits)

#### Year 2:

#### Digital Marketing Promotions Technical Diploma Marketing Associate Degree

- Fall '24 = 4 HS credits (13 college credits)
- Spring '25 = 5.5 HS credits (17 college credits)

## UWM at Waukesha Early College Academy

- For high school juniors and seniors who know they are going to college and for those who want to explore.
- Students can earn up to 7 college credits per semester with classes that are highly transferable.

### ACADEMY DETAILS

- All classes will be held at the UWM at Waukesha campus during first block and/or second block (dependent upon courses taken)
- Classes are regular college classes in UWM's College of General Studies (CGS)
- Students need a 2.8 GPA or a strong recommendation from a teacher or counselor
- Students do not need to sign up for all courses in the Academy - they can select the ones they want
- Students will apply to the UWM course(s) and Elmbrook School District will pay for tuition, fees, and books through the Early College Credit Program. Students will need to apply for ECCP courses prior to each semester. Requests for Fall courses are due March 1st and requests for Spring courses are due October 1st.
- For information about UWM at Waukesha Early College Academy, visit <https://uwm.edu/waukesha/early-college-academy-at-waukesha/>
- Indicate your interest in UWM Academy in the Infinite Campus Academic Planner

### UWM Academy

2403

#### Fall 2023 Courses Available:

- **Finding Your Pathway**  
M/W/F 8:00am-8:50am  
1 HS credit, 3 college credits (CGS LEC 105)
- **Anatomy & Physiology 1**  
T/Th7:45am-10:30am  
1 HS credit, 4 college credits (CGS BIO 202)

#### Spring 2024 Courses Available:

- **Critical Writing, Reading & Research**  
M/W/F 8:00am-8:50am  
1 HS credit, 3 college credits (CGS ENG 102)
- **Sociology of Race & Ethnicity**  
T/Th7:45am-9:00am  
1 HS credit, 3 college credits (CGS SOC 234)

## Early College Credit Program (ECCP)

The Early College Credit Program (ECCP) allows a student in grades 9 - 12 to apply to enroll in a UW System institution, or a private, nonprofit institution of higher education in Wisconsin, to take one or more courses, for which the student may earn high school credit, post-secondary credit, or both

- Students can participate during fall, spring, and/or summer
- The total number of credits that a student can attain through the program is 18. The District will be responsible for costs unless comparable course offered in the district.
- Application deadline dates: March 1 (for summer and fall semesters) and Oct. 1 (for spring semester)
- Costs of courses are shared among the IHE, the school district, the state, and in some cases, the student's family
- Students cannot be concurrently enrolled in Start College Now and Early College Credit Program
- Students are encouraged to consider preparedness for these rigorous programs carefully. If a student drops or fails a course, the School District of Elmbrook will require reimbursement for the cost of the credits.
- For more information regarding the Early College Credit Program, please visit <https://www.elmbrookschoools.org/programs-services/early-college-credit-program>

## Start College Now

The Start College Now (SCN) program allows public high school juniors and seniors to take courses at a Wisconsin technical college for high school and technical college credit

- Students can participate during fall or spring
- The total number of credits that a student can attain through the program is 18. Approval of course requests beyond 18 credits may be made by the Assistant Superintendent of Teaching and Learning or designee; specific consideration will be made for students seeking admission for an associate's degree, technical diploma, or technical certificate
- The District will be responsible for costs unless comparable course offered in the district
- Students cannot be concurrently enrolled in Start College Now and Early College Credit Program.
- Application deadline dates: March 1 (for fall semester) and Oct. 1 (for spring semester)
- Costs of courses are shared among the IHE, the school district, the state, and in some cases, the student's family
- Students are encouraged to consider preparedness for these rigorous programs carefully. If a student drops or fails a course, the School District of Elmbrook will require reimbursement for the cost of the credits
- For more information regarding Start college Now, please visit <https://www.elmbrookschoools.org/programs-services/start-college-now>

continued on next page...

## Start College Now continued

### Elmbrook Graphic Design Academy

Students who have successfully completed all four transcripted credit courses with Elmbrook Graphic Design Academy (Digital Illustration, Design Drawing & Color Theory, Page Layout/InDesign, and Image Editing/Photoshop), may take Integrated Digital Production at WCTC through the Start College Now Program to receive their Digital Production Certificate. This series of five courses is the first quarter of requirements to receive an Associate Degree in Graphic Design. Course descriptions for the

#### Integrated Digital Production 93054

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Successful completion of Elmbrook Graphic Design Academy first 4 courses

Institution: Waukesha County Technical College  
College Course Number: 204-132 - Integrated Digital Production  
College Credits: 3

Develop brochures, flyers, posters and other related publications using software applications such as Adobe InDesign, Illustrator, Photoshop, and others. Follow accepted industry prepress standards to indicate bleeds, color, fold and trim marks, die lines, color bars and other technical requirements that demonstrate mastery of page layout, illustration and image editing. Create PDF files to Industry Standards for output to both offset and digital presses. Create Interactive PDF's for digital portfolios.

## Part Time Open Enrollment

Part Time Open Enrollment permits public high school students in grades 9-12 the opportunity to apply to attend a public school in a non-resident district for the purposes of taking up to two (2) courses at a time.

More information regarding Part Time Open Enrollment can be found at <https://www.elmbrookschoools.org/programs-services/part-time-open-enrollment>.

## At-Risk Services

At-Risk Services are required under Wisconsin State Statute 118.153(1)(a) for a student 16 years of age or older who meets the statutory requirements of “children at risk” of not graduating from high school. Such a student may attend a technical college in lieu of high school or may attend the technical college on a part-time basis. The student and his or her parent or guardian must agree, in writing, that the student will participate in the technical school program that leads to the student’s high school graduation.

# CAREER-BASED LEARNING

The Young Professionals Scholars (YPS) program provides career-based learning experiences to Elmbrook high school students. The Career Based Learning opportunities take into consideration the student's passions, interests, skills, strengths, and aspirations/goals.

The opportunities provide for:

- Career exploration
- Career preparation and training
- Leadership and employability skill development
- Application of technical knowledge and skills in high demand fields
- Partnership with real business and industry partners

*\*NOTE: YPS is designated on the transcript of participating students. Additionally, the YPS designation is indicated on the BCHS/BEHS school profiles to inform institutions of higher education during the college admissions/application process.*



**LAUNCH** provides a unique learning experience (via actual courses and in areas such as project management, data science, entrepreneurship & sales, innovation / design thinking, and teamwork) where students connect academic and technical knowledge and skills to engage in real-world business problems, projects, needs and ideas. Students will have the opportunity to learn in courses taught by Elmbrook teachers and also be guided by business/industry professionals as they work collaboratively with peers to provide real solutions to business/industry projects/problems. More information is available at <http://launch.yourcapsnetwork.org/>. Add your LAUNCH strand of choice directly to your Infinite Campus Academic Planner!

## LAUNCH Strands

- Advanced Manufacturing Technologies
- Analytics
- Automation, Robotics and Trends in IT
- Data Science & Intelligence for Careers
- Engineering Foundations
- Foundations of Body Systems and Disease
- Future Teachers
- Global Business
- Healthcare Solutions
- Law and Public Policy
- Media Solutions
- Medicine & Healthcare
- Skilled Building Trades
- Spanish in Healthcare



**WCTC's Dual Enrollment Academy (DEA)** is designed to provide high school seniors with a head start in jobs in high-demand fields while providing them an opportunity to earn college credits – prior to high school graduation. The initiative awards participants with a WCTC diploma (upon successful completion) along with high school credits. Students spend the majority of their school day, both fall and spring semesters of their senior year, at WCTC participating in DEA. Students are encouraged to consider preparedness for these rigorous programs carefully. If a student drops or fails a course, the School District of Elmbrook will require reimbursement for the cost of the credits. Additional information is available at <https://www.wctc.edu/dual-enroll>.

## Dual Enrollment Academy Program Areas

- Automation Systems (Robotics)
- Building Construction Trades
- Building Construction Trades - Electrical Apprenticeship Emphasis
- Criminal Justice Studies
- Early Childhood Education Preschool (Registry Credential)
- Firefighter/EMT
- IT Systems Specialist
- Pre-Nursing
- Tool and Die/CNC
- Welding/Fabrication

## WI Youth Apprenticeship Program (YA)

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience. Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County.

To participate in the YA program, you must be:

- In your junior or senior year of high school (you may begin your apprenticeship as early as the summer before junior year)
- Likely to graduate at the end of your senior year
- Have participated in career exploration, guidance and/or education activities which allow you to make an informed choice
- Interested in hands-on, career-based learning

### Youth Apprenticeship Program Areas

You can add these selections to your Academic Planner in Infinite Campus!

- Architecture & Construction (Course 2303C)
- Art, A/V Technology & Communications (2303A)
- Business/Finance/Marketing (2303B)
- Information Technology (2303IT)
- STEM: Science, Technology, Engineering & Mathematics (2303S)
- Transportation, Distribution & Logistics (2303T)

### Additional Career Areas Available Upon Request

- Agriculture, Food & Natural Resources
- Health Science
- Hospitality, Lodging & Tourism
- Manufacturing

Additional information can be found at <https://www.wctc.edu/academics/programs-courses/high-school-dual-credit/youth-apprenticeships.php>.

## State Certified Cooperative Education Program

Wisconsin's State-Certified Cooperative Education Programs are quality work-based learning options designed in partnership with business, industry and labor representatives, and educators around the integration of school-based and work-based learning and appropriate career development experiences. The program provides paid work experience for junior or senior high school students as part of their overall academic and career plan.

Students completing the certified co-op certification will be issued a state-endorsed certificate from the State Superintendent of Public Instruction, which represents proof of completion. This certificate may also be endorsed by supporting industry and education organizations thus enhancing a student's future workplace portfolio.

### Completion Requirements:

- Student checklist of skills
- Two semesters of related instruction integrating employability skills
- Paid work experience of a minimum 480 hours total
- Successful completion (proficiency rating of 3 or 2) of at least 90 percent of competencies outlined on the application student portfolio checklist

### Co-Op Career Field Areas

- Advanced Marketing
- Business
- E-Commerce
- Employability Skills
- Entrepreneurship
- Family Services
- Finance
- Food Service
- Information Technology
- Marketing
- Retail Management
- Sports and Entertainment
- Youth Leadership

Also available:

Youth Leadership Certificate (90 hours- no paid wages required)

Employability Skills Certificate (90 hours- paid wages required)

## Career & Employment Opportunities (CEO)

2301

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Students must be actively employed prior to the start of the term.

Learn career and life skills while you earn! Students can engage in this personalized learning, seminar course to further support the development of professional knowledge and skills which can then be applied to real world work experiences.

NOTES: 1) The course will meet weekly for one block during each term or as scheduled; 2) Students are required to attend seminars with guest instructors. One seminar will most likely be held once per month [September, October, November, February, March, and April (dates/times to be announced)]; 3) The student a) will seek out his/her employment, b) must be employed prior to the start of the term, and c) must work a minimum of 20 hours per week. 4) The course is graded Pass/Fail.

**Students in this course can obtain the Employability Skills Certificate.**

## Internship

An internship (paid or unpaid) can be secured by the student and can afford him/her with opportunities to fast forward into a possible future and fully immerse him/herself into a professional culture, experience and solve real world problems, observe problem solving strategies used by employees, collaborate with employees, use industry standard tools, and be mentored throughout the process. The internship helps one develop a deeper appreciation of the business's intricacies and how the parts fit together to order to truly deliver value to customers. An internship is a shining example of how business, community, and public education partner to create personalized, relevant learning experiences that authentically prepare the workforce of tomorrow.

## Mentorship (Job Shadow/Observation)

Career exploration opportunity for students that occurs through planned on- the-job visitations in a student selected career field. Students will connect with an industry professional or if needed, be matched on an individual basis with an adult/professional mentor working in the career interest area. An individual plan, developed by the student and mentor/supervisor, helps structure and guide the experience. The job shadow experience requires 40 hours in a workplace setting (single or multiple) during the school day and/or outside of the school day. The job shadow can occur over a summer and/or (typically) one or two terms and will be unpaid. Consider this opportunity if you are a junior or senior and wondering about a particular career field.

## Global Education Achievement Certificate (GEAC)

Students graduating from high school may be awarded the distinction of Wisconsin Global Scholar if they have completed the following requirements:

- Four (4) credits in one world language, OR pass the ACTFL (AAPPL) proficiency exam at the intermediate high level.
- Four (4) credits in courses with global content. One of those credits may be one year of a second world language.
- Reflections on eight books (fiction or non-fiction) with global content. Alternately, up to four reflections may be on art, music, or film.
- Participation in school wide global activities including a minimum of twenty (20) hours of global service learning.



# CAREER CLUSTERS & PROGRAMS OF STUDY

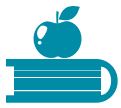
This section of the course offerings guide provides students and families with valuable resources as they reflect upon potential career areas they may wish to consider pursuing and develop an academic plan that will support those aspirations.

The following pages outline 16 potential career clusters. Each career cluster provides a variety of career pathways students and families may want to explore. As students identify career clusters that may be of interest, potential courses and other experiences that are aligned with and may be of interest are displayed within a related program of study.

## CAREER CLUSTERS:

-  Agriculture, Food & Natural Resources
-  Architecture & Construction
-  Arts, A/V Technology & Communications
-  Business Management & Administration
-  Education & Training
-  Finance
-  Government & Public Administration
-  Health Science
-  Hospitality & Tourism
-  Human Services
-  Digital Technology
-  Law, Public Safety, Corrections & Security
-  Advanced Manufacturing
-  Marketing
-  Science, Technology, Engineering & Mathematics
-  Transportation, Distribution & Logistics





# AGRICULTURE, FOOD & NATURAL RESOURCES

This diverse Career Cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical, and educational services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Agribusiness Systems</b>				
<ul style="list-style-type: none"> <li>Farm and Ranch Workers</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture Contact Provider</li> </ul>	<ul style="list-style-type: none"> <li>Agribusiness Management</li> <li>Agribusiness Operations</li> <li>Agriculture</li> <li>Farm and Ranch Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Economics</li> <li>Agribusiness</li> <li>Agricultural Education</li> <li>Hospitality, Restaurant and Professional Golf Management</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Economics</li> <li>Agriculture Leadership Education</li> <li>Statistics</li> </ul>
<b>Animal Systems</b>				
<ul style="list-style-type: none"> <li>Animal Caretakers</li> <li>Feed Sales</li> </ul>	<ul style="list-style-type: none"> <li>Ag Dairy Technician</li> <li>Beef Quality Assurance Program</li> <li>Livestock Production</li> <li>Pork Quality Assurance Program</li> </ul>	<ul style="list-style-type: none"> <li>Animal Science</li> <li>Equine Industry Management</li> <li>Livestock Industry Management</li> <li>Swine Management</li> <li>Veterinary Technology</li> </ul>	<ul style="list-style-type: none"> <li>Animal Science</li> <li>Biochemistry</li> <li>Grazing Livestock</li> <li>Systems Veterinary</li> <li>Science Veterinary Technologist</li> </ul>	<ul style="list-style-type: none"> <li>Animal Science</li> <li>Biochemistry</li> <li>Integrative Biomedical Sciences</li> <li>Veterinary Medicine</li> </ul>
<b>Environmental Service Systems</b>				
<ul style="list-style-type: none"> <li>Refuse and Recyclable Material Collection</li> </ul>		<ul style="list-style-type: none"> <li>Environmental Science</li> <li>Laboratory Science Technology</li> </ul>	<ul style="list-style-type: none"> <li>Aquatic Ecology</li> <li>Conservation</li> <li>Biology</li> <li>Environmental Soil Science</li> <li>Environmental Studies Habitat Management</li> </ul>	<ul style="list-style-type: none"> <li>Entomology</li> <li>Natural Resource Sciences</li> </ul>
<b>Food Products &amp; Processing Systems</b>				
<ul style="list-style-type: none"> <li>Butchers and Meat Cutters</li> <li>Meat Processing</li> <li>Slaughter and Meat Packer</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture Dairy Technician</li> <li>Commercial Plant</li> <li>Production Food</li> <li>Handlers Permit</li> <li>Quality Control</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Diversified Agriculture</li> <li>Dietary Management</li> <li>Food Science and Technology</li> <li>Quality Control</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Animal Science</li> <li>Food Science and Technology</li> <li>Hospitality, Restaurant and Tourism Management</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Animal Science (Meat Science Focus)</li> <li>Food Science and Technology</li> <li>Nutrition</li> </ul>
<b>Natural Resource Systems</b>				
		<ul style="list-style-type: none"> <li>Natural Resources</li> <li>Systems Soil and Water Conservation</li> <li>Wildlife Management</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Soil Sciences</li> <li>Environmental Studies &amp; Economics</li> <li>Fisheries and Wildlife</li> <li>Natural Resources and Water Science</li> </ul>	<ul style="list-style-type: none"> <li>Horticulture and Forestry Natural Resource Sciences</li> </ul>
<b>Plant Systems</b>				
<ul style="list-style-type: none"> <li>Nursery and Greenhouse Workers</li> <li>Seed Sales</li> <li>Tree Trimmers and Pruners</li> </ul>	<ul style="list-style-type: none"> <li>Commercial Horticulture</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy Commercial</li> <li>Horticulture Crop Production</li> <li>Forestry</li> <li>Sport Turf Technology</li> </ul>	<ul style="list-style-type: none"> <li>Agronomy</li> <li>Biochemistry</li> <li>Diversified Agricultural Studies</li> <li>Horticulture</li> <li>Plant Protection Sciences</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture</li> <li>Agronomy</li> <li>Biochemistry</li> <li>Entomology</li> <li>Horticulture and Forestry</li> </ul>
<b>Power, Structural &amp; Technical Systems</b>				
<ul style="list-style-type: none"> <li>Electrician Apprenticeship</li> <li>Plumbing Apprenticeship</li> <li>Welding Apprenticeship</li> </ul>	<ul style="list-style-type: none"> <li>Parts Distribution and Management</li> <li>Parts/Sales and Management</li> </ul>	<ul style="list-style-type: none"> <li>Agritechnology</li> <li>Farm Mechanics</li> <li>Irrigation Technology</li> <li>John Deere Ag Technician</li> <li>Mechanized Agriculture</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Operations</li> <li>Mechanized Marketing</li> <li>Mechanized Science</li> <li>Mechanized Systems Management</li> <li>Processing Operations</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural and Biological Systems</li> <li>Engineering</li> <li>Mechanized Systems Management</li> </ul>



# ARCHITECTURE & CONSTRUCTION

This diverse Career Cluster prepares learners for careers in designing, planning, managing, building, and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations, and repairs.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Design/Pre-Construction</b>				
<ul style="list-style-type: none"> <li>• Construction Laborer *◇</li> <li>• Pre-Apprentice</li> <li>• Supplier Sales</li> <li>• Carpenter Helper *</li> <li>• Painter◇</li> <li>• Roofer◇</li> </ul> Salary Range: \$20,900-\$74,700	<ul style="list-style-type: none"> <li>• Appliance Technician *</li> <li>• Landscape Technician</li> <li>• HVAC Service Technician *◇</li> <li>• Retail/Design Consultant</li> </ul> Salary Range: \$16,900-\$89,000	<ul style="list-style-type: none"> <li>• Concrete Finisher *</li> <li>• Electrician◇</li> <li>• Plumber *◇</li> <li>• Steamfitter *◇</li> <li>• Boilermaker◇</li> <li>• Iron Worker◇</li> <li>• Carpenter *◇</li> <li>• Operating Engineer *◇</li> <li>• Sheet Metal Worker◇</li> <li>• Pipefitter *</li> <li>• Crew Leader/Foreman *</li> <li>• Superintendent *</li> </ul> Salary Range: \$19,200-\$152,000	<ul style="list-style-type: none"> <li>• Drafting Design Technician</li> <li>• Surveyor</li> <li>• Interior Designer◇</li> <li>• Landscaper◇</li> </ul> Salary Range: \$19,200-\$78,600	<ul style="list-style-type: none"> <li>• Architect◇</li> <li>• Civil Engineer◇</li> <li>• Landscape Architect◇</li> </ul> Salary Range: \$29,700-\$111,100
<b>General Construction Skilled Trades</b>				
<ul style="list-style-type: none"> <li>• Pre-Apprentice</li> <li>• Supplier Sales</li> <li>• Carpenter Helper *</li> <li>• Painter◇</li> <li>• Roofer◇</li> </ul> Salary Range: \$20,900-\$74,700	<ul style="list-style-type: none"> <li>• Cabinet Maker</li> <li>• Bricklayer *◇</li> <li>• Boiler Operator</li> <li>• Rough Carpenter *</li> <li>• Tile Setter *</li> </ul> Salary Range: \$24,200-\$82,400	<ul style="list-style-type: none"> <li>• Electrician◇</li> <li>• Plumber *◇</li> <li>• Steamfitter *◇</li> <li>• Boilermaker◇</li> <li>• Iron Worker◇</li> <li>• Carpenter *◇</li> <li>• Operating Engineer *◇</li> <li>• Sheet Metal Worker◇</li> <li>• Pipefitter *</li> <li>• Crew Leader/Foreman *</li> <li>• Superintendent *</li> </ul> Salary Range: \$19,200-\$152,000	<ul style="list-style-type: none"> <li>• Project Manager *</li> <li>• Assistant Construction Manager *</li> <li>• Cost Estimator *</li> </ul> Salary Range: \$37,000-\$169,000	<ul style="list-style-type: none"> <li>• Safety Manager</li> <li>• Project Engineer *</li> <li>• Construction Manager *◇</li> <li>• Company Owner</li> </ul> Salary Range: \$28,500-\$336,000

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>Building Construction and Basic Carpentry Theory 1</li> <li>Architecture</li> </ul>	<p>Students should take ALL of these options:</p> <ul style="list-style-type: none"> <li>Building Construction and Basic Carpentry Theory 2</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Computer Aided Design (CAD)</li> <li>LAUNCH Skilled Building Trades Strand                             <ul style="list-style-type: none"> <li>Light Building Construction</li> <li>Math for Skilled Trades</li> <li>Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- 3D Fabrication Society

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- |   |  |
|---|--|
| <b>ATE:</b>   | <b>Visual Arts:</b>  |
| <ul style="list-style-type: none"> <li>Wood Design &amp; Production I</li> <li>Wood Design &amp; Production II</li> </ul> | <ul style="list-style-type: none"> <li>Drawing I</li> <li>Drawing II</li> <li>Drawing III</li> </ul> |

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

### WORK-BASED LEARNING OPTIONS

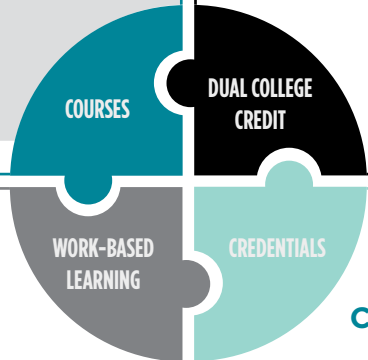
- Employability Skills
- State Skill Standards Co-Op-Construction
- Architecture & Construction Seminar and Youth Apprenticeship
- Local Work-based Learning Programs that meet state quality requirements

### INDUSTRY-RECOGNIZED CREDENTIALS

- Autodesk Certified User
- Woodwork Career Alliance: Sawblade

*Upon Student Request:*

- North American Technician Excellence (NATE): HVAC Support Technician*
- Multi-Craft Core Curriculum*
- National Center for Construction Education & Research (NCCER)*
- Career Connections/Level 3*





# ARTS, A/V TECHNOLOGY & COMMUNICATIONS

This cluster offers two different avenues of concentration. Careers in the Performing Arts, Visual Arts, or certain aspects of Journalism, Broadcasting, and Film require creative talents. Careers in Audio-Video Communications Technology, Telecommunications, or Printing Technology require strong backgrounds in computer and electronic-based technology, and a solid foundation in math and science. Communicating effectively in both oral and written form is essential for all careers in the cluster. In addition, the creative aspects of this cluster are rapidly merging with the technological, offering exciting and challenging careers.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Audio/Video (AV) Technology &amp; Film</b>				
	<ul style="list-style-type: none"> <li>• Audio and Recording Technology</li> <li>• Video Production</li> </ul>	<ul style="list-style-type: none"> <li>• Audio and Recording Technology</li> <li>• Electronics</li> <li>• Industrial Video</li> <li>• Production Film/Video Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Design and Visual Communications</li> <li>• Electrical Engineering</li> <li>• Film Studies and Production</li> <li>• Mechanical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Electronics Engineering</li> </ul>
<b>Journalism and Broadcasting</b>				
	<ul style="list-style-type: none"> <li>• Certification by the Society of Broadcast Engineers Radio</li> <li>• Announcing</li> <li>• Radio Production</li> </ul>	<ul style="list-style-type: none"> <li>• Audio &amp; Recording</li> <li>• Technology Broadcasting - Radio/TV Journalism</li> <li>• Mass Media/Communications</li> <li>• Media Arts</li> </ul>	<ul style="list-style-type: none"> <li>• Advertising</li> <li>• Broadcasting</li> <li>• Journalism</li> <li>• News Editorial</li> <li>• Visual Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Journalism</li> </ul>
<b>Performing Arts</b>				
<ul style="list-style-type: none"> <li>• Movie and Stage Grip</li> <li>• Usher and Ticket Taker</li> <li>• Movie Projectionist</li> </ul>	<ul style="list-style-type: none"> <li>• Musical Instrument Repair and Tuning</li> <li>• Sound Engineering</li> <li>• Theater Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Music</li> <li>• Musical Instrument Repair and Tuning</li> <li>• Sound Engineering</li> <li>• Theater Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Arts</li> <li>• Administration</li> <li>• Dance</li> <li>• Music</li> <li>• Stage Management</li> <li>• Theater Arts</li> </ul>	<ul style="list-style-type: none"> <li>• Music</li> <li>• Musical Arts</li> </ul>
<b>Printing Technology</b>				
<ul style="list-style-type: none"> <li>• Bookbinder and Bindery Worker</li> <li>• Graphic and Printing</li> <li>• Equipment Operator</li> </ul>	<ul style="list-style-type: none"> <li>• Desktop Publishing</li> <li>• Digital Publishing</li> <li>• Graphic Communications</li> <li>• Offset Publishing</li> <li>• Web Page Design</li> </ul>	<ul style="list-style-type: none"> <li>• Electronic Imaging &amp; Graphics</li> <li>• Graphic Design</li> <li>• Media Arts</li> <li>• Printing Technology</li> <li>• Visual Publications</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Graphics</li> <li>• Graphic Design</li> <li>• Industrial Design</li> <li>• Printing Management</li> <li>• Visual Communication &amp; Design</li> </ul>	
<b>Telecommunications</b>				
	<ul style="list-style-type: none"> <li>• Electronics Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Computer and Information Sciences</li> <li>• Computer Systems Analysis</li> <li>• Electronics Technology in Telecommunications</li> <li>• Information Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Networking and Telecommunications</li> <li>• Electronics Engineering</li> <li>• Operations Technology</li> <li>• Telecommunications</li> </ul>	<ul style="list-style-type: none"> <li>• Electronics Engineering</li> <li>• Information Technology</li> <li>• Telecommunications Engineering</li> </ul>
<b>Visual Arts</b>				
<ul style="list-style-type: none"> <li>• Photograph Processing Worker</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial Art</li> <li>• Digital Publishing</li> <li>• Graphic Art</li> <li>• Multimedia Photography</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial Art</li> <li>• Graphic Design</li> <li>• Interior Design</li> <li>• Media Arts</li> <li>• Visual Publications</li> </ul>	<ul style="list-style-type: none"> <li>• Art History</li> <li>• Fashion Design</li> <li>• Graphic Design</li> <li>• Interior Design</li> <li>• Studio Arts</li> <li>• Visual Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Art History</li> <li>• Studio Arts</li> </ul>

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>Digital Imaging I</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Digital Imaging II</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Graphic Design Academy                             <ul style="list-style-type: none"> <li>Design, Drawing &amp; Color Theory*</li> <li>Digital Illustration*</li> <li>Image Editing/Photoshop*</li> <li>Page Layout/InDesign*</li> </ul> </li> <li>LAUNCH Media Solutions Strand                             <ul style="list-style-type: none"> <li>English 11/Writing for Research</li> <li>Digital Imaging Seminar</li> <li>Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Anime Club
- Art Club
- Game Development Club
- Graphics Club
- Newspaper
- Yearbook
- Women in Engineering

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- Video Production
- Yearbook
- Drawing I, II and III

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

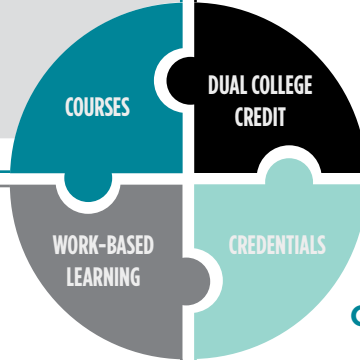
- Design, Drawing & Color Theory (WCTC)
- Digital Illustration (WCTC)
- Image Editing/Photoshop (WCTC)
- Page Layout/InDesign (WCTC)

### WORK-BASED LEARNING OPTIONS

- LAUNCH (Work-based mentorship and project-based learning)
  - Media Solutions (Advanced Level Coursework, Year 3 or 4)
- Mentorship
- Arts/AV/Technology & Communications Seminar and Youth Apprenticeship

### INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate
- Digital Production/DTP Technical Certificate



## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY of these options:</p> <ul style="list-style-type: none"> <li>• Concert Band</li> <li>• Concert Choir or Treble Choir</li> <li>• Symphony Orchestra or Chamber Orchestra</li> <li>• Digital Music for Musicians and Non-Musicians</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Concert Band, Symphonic Band or Wind Ensemble</li> <li>• Concert Choir, Chamber Choir or Women's Ensemble</li> <li>• Symphony Orchestra</li> <li>• Digital Music for Musicians and Non-Musicians</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Concert Band, Symphonic Band or Wind Ensemble</li> <li>• Concert Choir, Chamber Choir or Women's Ensemble</li> <li>• Symphony Orchestra</li> <li>• Digital Music for Musicians and Non-Musicians</li> <li>• Exploring Music Theory and Composition</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Forensics
- Theater Department/Club
- Band
- Choir
- Drama/Musical
- Orchestra
- Friends of the BCHS Band

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- Band/Choir/Orchestra courses

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

OPPORTUNITIES 

## WORK-BASED LEARNING OPTIONS

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS



# BUSINESS MANAGEMENT & ADMINISTRATION

This cluster includes those career opportunities that are dedicated to performing administrative managerial processes vital to the success and ongoing existence of a business organization, regardless of the sector or industry in which the business resides or the product/service it provides.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Administrative Services</b>				
<ul style="list-style-type: none"> <li>Administrative Assistant</li> <li>Computer Operator</li> <li>Customer Service</li> <li>Data Entry Specialist</li> <li>Microsoft Office</li> </ul>	<ul style="list-style-type: none"> <li>Court Reporting</li> <li>Information Processing Legal or Medical</li> <li>Information Technology</li> <li>Office Administration</li> </ul>	<ul style="list-style-type: none"> <li>Court Reporting</li> <li>Information Processing Legal or Medical</li> <li>Information Technology</li> <li>Office Management</li> </ul>	<ul style="list-style-type: none"> <li>Information Systems</li> <li>Information Technology Management</li> </ul>	
<b>Business Information Management</b>				
	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Technology</li> <li>Office Technology</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Technology</li> <li>Office Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Systems</li> <li>Information Technology Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Information Technology</li> </ul>
<b>Human Resources Management</b>				
<ul style="list-style-type: none"> <li>Human Resources Clerk</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>Human Resources Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>
<b>Management</b>				
	<ul style="list-style-type: none"> <li>Certified Government</li> <li>Auditing Professional</li> <li>Certified Professional Consultant</li> </ul>	<ul style="list-style-type: none"> <li>Agribusiness</li> <li>Business Administration</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Entrepreneurship</li> <li>Marketing</li> <li>Finance</li> <li>International Business</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration and Management</li> </ul>
<b>Operations Management</b>				
	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Retail Management</li> </ul>	<ul style="list-style-type: none"> <li>Agribusiness</li> <li>Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Marketing</li> <li>Operations Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Accounting</li> <li>• Introduction to Business</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Entrepreneurship</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> <li>• Business &amp; Society*</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Black Student Union
- Class Council
- Communication & Networking for Future Leaders
- Culture Club
- Distinguished Young Women
- Economics Club
- Forensics
- French Club
- Hmong American Student Association (HASA)
- HNC Club
- Interact Club
- Key Club
- Latin Club
- Model Unite Nations
- Muslim Student Club
- Muslim Student Organization
- SAFE Club
- She's the First
- Sociedad Honoraria Hispanica
- Student Council
- UNICEF

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- World Language
- Business Law
- Business Management
- Current Issues
- AP World History\*

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

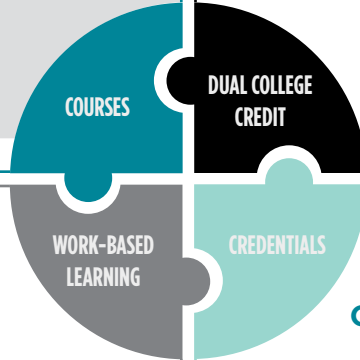
- AP World History
- Business & Society (UWM)
- Business Strategy (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship
- Marketing Co-Op
- Entrepreneur Co-Op
- Finance Co-Op
- Business Co-Op
- Information Technology Co-Op

### CREDENTIALS INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist (MOS)
- QuickBooks Certified User
- Youth Leadership Certificate
- WI Global Education Achievement Certificate







# EDUCATION & TRAINING

This cluster prepares for careers in providing, supporting, and managing the education and training of millions of learners. It encompasses ages from preschool through adults; varies from informal to formal settings; and provides for the skills necessary for initial entrance as well as updating skills to advance within the job or train for a different one.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Administration &amp; Administrative Support</b>				
				<ul style="list-style-type: none"> <li>• Educational Administration</li> <li>• Educational Studies</li> <li>• Business Administration</li> <li>• Administration and Supervision</li> </ul>
<b>Professional Support Services</b>				
	<ul style="list-style-type: none"> <li>• Personal Trainer</li> <li>• Certified Strength and Conditioning Specialist (SCS)</li> </ul>	<ul style="list-style-type: none"> <li>• Library Technical Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Speech-Language Pathology</li> <li>• Social Work</li> <li>• Information Science and Technology</li> <li>• Special Education and Communication Disorders</li> </ul>	<ul style="list-style-type: none"> <li>• Educational Psychology</li> <li>• Human Sciences</li> <li>• Instructional Technology</li> <li>• School Psychology</li> <li>• School Counseling</li> <li>• Social Work</li> </ul>
<b>Teaching/Training</b>				
<ul style="list-style-type: none"> <li>• Child Care Worker</li> <li>• Coach of Community-based Sport Leagues</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Assistant Coaching</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Sign Language Interpreting</li> <li>• Education Paraprofessional</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> <li>• Elementary Education</li> <li>• Middle Level Education</li> <li>• Secondary Education</li> <li>• Special Education</li> <li>• Athletic Trainer</li> </ul>	<ul style="list-style-type: none"> <li>• Curriculum and Instruction Education</li> <li>• Teaching, Curriculum, and Learning</li> <li>• Leadership Education and Leadership Studies</li> </ul>



## EDUCATION Regional Career Pathway

High School Diploma/ Certification	Certification or Technical Diploma	Associate Degree	Bachelor Degree and Beyond
<b>Early Childhood Education</b>			
<ul style="list-style-type: none"> <li>Assistant Child Care Teacher, Child Care Teacher, or Infant Toddler Teacher *◇</li> <li>Nanny (Au Pair) ◇</li> </ul> Salary Range: \$25,000-\$30,000	<ul style="list-style-type: none"> <li>Family Child Care Provider *</li> <li>Child Care Director *</li> <li>Preschool Teacher *◇</li> </ul> Salary Range: \$25,000-\$35,000	<ul style="list-style-type: none"> <li>Head Start Assistant Teacher *</li> <li>Social and Human Services Assistant ◇</li> </ul> Salary Range: \$30,000-\$40,000	<ul style="list-style-type: none"> <li>Head Start Lead Teacher *</li> <li>4K Preschool Teacher (in district) *◇</li> <li>Early Childhood Special Ed. Teacher *◇</li> </ul> Salary Range: \$40,000-\$60,000
<b>K12 Education</b>			
<ul style="list-style-type: none"> <li>Food Services Worker *◇</li> <li>School Safety Officer or Security Personnel</li> <li>School Office Assistant</li> <li>Teacher Assistant *◇</li> <li>School Bus Monitor</li> </ul> Salary Range: \$25,000-\$35,000	<ul style="list-style-type: none"> <li>Bus Driver *◇</li> <li>Food Services Director *◇</li> </ul> Salary Range: \$35,000-\$60,000	<ul style="list-style-type: none"> <li>Paraeducator *</li> <li>Health Room Aide *</li> <li>IT Support Specialist *◇</li> <li>Lab Assistant</li> <li>Short Term Substitute Teacher *</li> </ul> Salary Range: \$30,000 - \$40,000	Teacher <ul style="list-style-type: none"> <li>PreK-12 Education (6-12 emphasis) *◇</li> <li>Special Education *◇</li> </ul> Pupil or Student Services Staff <ul style="list-style-type: none"> <li>School Social Worker *</li> <li>School Counselor or School Psychologist *</li> </ul> Educational Administrators K-12 ◇ Salary Range: \$40,000-\$100,000
<b>Higher Education</b>			
<ul style="list-style-type: none"> <li>Food Services Worker *◇</li> <li>Facilities Maintenance Worker</li> <li>Tutor</li> <li>Residential Advisor</li> </ul> Salary Range: \$25,000-\$40,000	<ul style="list-style-type: none"> <li>Lab Assistant</li> </ul> Salary Range: \$25,000-\$30,000	<ul style="list-style-type: none"> <li>Administrative Assistant ◇</li> <li>Library Technician ◇</li> <li>IT Support Specialist ◇</li> <li>Lab Manager</li> </ul> Salary Range: \$30,000-\$40,000	Professor, Adjunct or Instructor ◇ Library Media Specialist ◇ Student Services Staff <ul style="list-style-type: none"> <li>Disability Services Coordinators</li> <li>Career Services Advisors</li> <li>Admissions Counselors ◇</li> <li>Academic Advisor</li> </ul> Salary Range: \$40,000-\$100,000
<b>Adult and Community Education</b>			
<ul style="list-style-type: none"> <li>Community Education Instructor</li> <li>Youth Development Worker</li> <li>Community Recreation Staff</li> <li>Umpire/Referee *◇</li> <li>Coach *◇</li> </ul> Salary Range: \$25,000-\$30,000	<ul style="list-style-type: none"> <li>Behavior Technician</li> <li>HR or Organizational Development Assistant</li> <li>Career or Life Coach ◇</li> </ul> Salary Range: \$35,000-\$50,000	<ul style="list-style-type: none"> <li>Community Program Manager</li> <li>Social and Human Services Assistant ◇</li> <li>Library Technician ◇</li> </ul> Salary Range: \$30,000-\$40,000	<ul style="list-style-type: none"> <li>Director of Community Education</li> <li>Corporate Trainer or Development Specialist◇</li> <li>Library Media Specialist ◇</li> </ul> Salary Range: \$40,000-\$100,000

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>Public Speaking* or Speech Communication</li> <li>Psychology</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Modern Society</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>LAUNCH Future Teachers Strand                             <ul style="list-style-type: none"> <li>AP Psychology*</li> <li>Educational Inquiry 1: Critical Perspectives on Education*</li> <li>Educational Psychology*</li> <li>Introduction to Special Education*</li> <li>Instructional Design/Teaching*</li> <li>Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Best Buddies
- Black Student Union
- Blue Crew
- Class Council
- Culture Club
- Distinguished Young Women
- Forensics
- Hmong American Student Assoc. (HASA)
- Interact Club
- Key Club
- LEAP
- Link Crew
- Muslim Student Club
- Muslim Student Organization
- PRISM Club
- Psychology Club
- Red Cross Club
- SAFE Club
- Student Council

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>AP Capstone:</b></p> <ul style="list-style-type: none"> <li>AP Seminar*</li> <li>AP Research*</li> </ul>	<p><b>Math:</b></p> <ul style="list-style-type: none"> <li>Precalculus*</li> <li>Statistics*</li> <li>Data Analysis*</li> </ul>	<p><b>Health/PE:</b></p> <ul style="list-style-type: none"> <li>Exercise Science</li> <li>Personal Fitness &amp; Wellness</li> <li>Ultimate Strength &amp; Conditioning</li> </ul>
<p><b>English:</b></p> <ul style="list-style-type: none"> <li>Writing for Publication</li> <li>Public Speaking*</li> <li>Writing for College*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>Current Issues</li> </ul>	

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Psychology
- AP Research
- AP Seminar
- Educational Inquiry 1: Critical Perspectives on Education (MU)
  - Educational Psychology (MU)
- Introduction to Special Education (UWW)
  - Precalculus (UWO CAPP)
  - Public Speaking (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)
    - Instructional Design/Teaching (MU)
  - Writing for College (UWO CAPP)

## WORK-BASED LEARNING OPTIONS

- Assistant Child Care Teacher (ACCT) Co-op (requires coursework at WCTC)
- Child Care Teacher Co-op (requires coursework at WCTC)

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

Upon Student Request:

- Assistant Child Care Teacher (ACCT) - WCTC



# FINANCE

This Cluster includes career opportunities that relate to making strategic decisions to obtain, save, protect, and grow the financial assets of businesses and individuals. Individuals working in finance must have strong computation, analytical, and interpersonal skills.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Accounting &amp; Business Finance</b>				
<ul style="list-style-type: none"> <li>• Tax Preparer</li> <li>• Statement Representative</li> <li>• Accounts Payable/Receivable Associate</li> <li>• Bookkeeper ◇</li> <li>• Bill and Account Collector ◇</li> </ul> Salary Range: \$22,900-\$101,800	<ul style="list-style-type: none"> <li>• Inventory Control Associate</li> <li>• Payroll Associate</li> </ul> Salary Range: \$25,800-\$60,7000	<ul style="list-style-type: none"> <li>• Financial Services Professional</li> </ul> Salary Range: \$34,900-\$199,800	<ul style="list-style-type: none"> <li>• Information Securities Analyst</li> <li>• Accounting Specialist</li> <li>• Budget Analyst</li> <li>• Contract Specialist</li> <li>• Financial Analyst *</li> </ul> Salary Range: \$24,200-\$99,700	<ul style="list-style-type: none"> <li>• Accountant *</li> <li>• Auditor</li> <li>• Financial Manager *</li> <li>• Forensic Accountant</li> <li>• Credit Analyst</li> </ul> Salary Range: \$44,500-\$246,800
<b>Securities/Investments &amp; Banking Services</b>				
<ul style="list-style-type: none"> <li>• Bank Teller * ◇</li> <li>• New Accounts Representative *</li> <li>• Loan Processor *</li> </ul> Salary Range: \$21,300-\$55,7000	<ul style="list-style-type: none"> <li>• Loan Counselor</li> <li>• Financial Planning Assistant</li> </ul> Salary Range: \$31,600-\$129,100	<ul style="list-style-type: none"> <li>• Financial Services Professional</li> </ul> Salary Range: \$34,900-\$199,800	<ul style="list-style-type: none"> <li>• Account Manager * ◇</li> <li>• Personal Banker</li> <li>• Loan Officer ◇</li> <li>• Financing Specialist</li> </ul> Salary Range: \$31,300-\$246,800	<ul style="list-style-type: none"> <li>• Bank Manager * ◇</li> <li>• Investment Banker ◇</li> <li>• Mortgage Broker ◇</li> <li>• Research Analyst (Financial) ◇</li> <li>• Money Manager ◇</li> <li>• Stock Trader ◇</li> </ul> Salary Range: \$30,400-\$246,800
<b>Insurance</b>				
<ul style="list-style-type: none"> <li>• Insurance Claim Representative</li> </ul> Salary Range: \$26,600-\$57,000	<ul style="list-style-type: none"> <li>• Customer Service/Account Management *</li> <li>• Claims Assistant/Adjuster</li> <li>• Underwriting Assistant</li> <li>• Insurance Sales</li> </ul> Salary Range: \$23,600-\$132,000	<ul style="list-style-type: none"> <li>• Financial Services Professional</li> </ul> Salary Range: \$34,900-\$199,800	<ul style="list-style-type: none"> <li>• Real Estate Assessor</li> <li>• Financial Service Representative</li> <li>• Insurance Agent</li> <li>• Insurance Underwriter</li> </ul> Salary Range: \$31,500-\$199,800	<ul style="list-style-type: none"> <li>• Actuary ◇</li> <li>• Personal Financial Advisor</li> <li>• Risk Management Specialist</li> <li>• Insurance Claims Adjusters ◇</li> </ul> Salary Range: \$49,900-\$199,800

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Personal Finance</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Introduction to Accounting</li> <li>• Economics</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• College Accounting</li> <li>• Business Leadership</li> <li>• LAUNCH Analytics Strand               <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<b>Business:</b>	<b>Math:</b>	<b>Social Studies:</b>
<ul style="list-style-type: none"> <li>• Entrepreneurship</li> <li>• Business Law</li> <li>• Business Management</li> <li>• Financial Management &amp; Investing*</li> </ul>	<ul style="list-style-type: none"> <li>• Precalculus*</li> <li>• Statistics*</li> <li>• Data Analysis*</li> <li>• AP Statistics*</li> </ul>	<ul style="list-style-type: none"> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> </ul>
		<b>World Language:</b>
		<ul style="list-style-type: none"> <li>• Any World Language</li> </ul>

\* Dual Credit Course

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Statistics
- AP Macro Economics
- AP Micro Economics
- Business & Society (UWM)
- Business Strategy (UWO CAPP)
- Precalculus (UWO CAPP)
- Statistics & Data Analysis (UWO CAPP)
- You can find the list of college credit

opportunities included in the postsecondary options for this pathway HERE

### WORK-BASED LEARNING OPTIONS

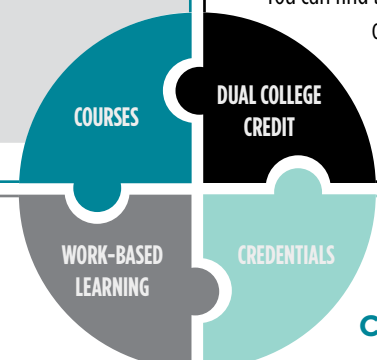
- Finance Co-Op
- Business/Finance/Marketing Seminar and Youth Apprenticeship

### INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist (MOS)
- QuickBooks Certified User
- Youth Leadership Certificate

Upon Student Request:

- IC3 Digital Literacy Certification
- A\*S\*K - ANY Business or Marketing Certificate
- Entrepreneurship and Small Business Certification
- National Bookkeepers Association Tax Certification





# Banking Services

## PROGRAM OF STUDY

How do I get there?

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

#### YEAR 1

Students should consider taking ALL options:

- Introduction to Business
- Personal Finance

#### YEAR 2

Students should take ANY one of these options:

- Personal Finance
- Economics

#### YEARS 3 & 4

Students should take ANY one of these options:

- Financial Management & Investing\*
- Business Leadership
- LAUNCH Analytics Strand
  - AP Statistics\*
  - Business Strategy\*
  - Mentorship

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- College Accounting
- Entrepreneurship
- Business Law
- Business Management
- Financial Management & Investing\*

#### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*
- AP Statistics\*

#### Social Studies:

- AP Micro Economics\*
- AP Macro Economics\*

#### World Language:

- Any World Language

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
  - AP Statistics
  - Business Strategy (UWO CAPP)
- Financial Management & Investing (UWO CAPP)
  - Precalculus (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist (MOS)
- QuickBooks Certified User
- Youth Leadership Certificate



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

#### YEAR 1

Students should consider taking ALL options:

- Introduction to Business
- Personal Finance

#### YEAR 2

Students should take ANY one of these options:

- Economics
- Financial Management & Investing\*

#### YEARS 3 & 4

Students should take ANY one of these options:

- Economics
- Financial Management & Investing\*
- LAUNCH Analytics Strand
  - AP Statistics\*
  - Business Strategy\*
  - Mentorship

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- College Accounting
- Entrepreneurship
- Business Law
- Business Management
- Financial Management & Investing\*

#### Math:

- Precalculus\*
- Statistics\*
- Data Analysis\*
- AP Statistics\*

#### Social Studies:

- AP Micro Economics
- AP Macro Economics

#### World Language:

- Any World Language

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
  - AP Statistics
  - Business Strategy (UWO CAPP)
- Financial Management & Investing (UWO CAPP)
  - Precalculus (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist (MOS)
- QuickBooks Certified User
- Youth Leadership Certificate



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Personal Finance</li> </ul>	<p>Students should consider taking ALL of these options:</p> <ul style="list-style-type: none"> <li>• Economics</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Business Leadership</li> <li>• LAUNCH Analytics Strand               <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

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### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<b>Business:</b>	<b>Math:</b>	<b>Social Studies:</b>
<ul style="list-style-type: none"> <li>• College Accounting</li> <li>• Entrepreneurship</li> <li>• Business Law</li> <li>• Business Management</li> <li>• Financial Management &amp; Investing*</li> </ul>	<ul style="list-style-type: none"> <li>• Precalculus*</li> <li>• Statistics*</li> <li>• Data Analysis*</li> <li>• AP Statistics*</li> </ul>	<ul style="list-style-type: none"> <li>• AP Micro Economics</li> <li>• AP Macro Economics</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>

\* Dual Credit Course

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
  - AP Statistics
  - Business Strategy (UWO CAPP)
- Financial Management & Investing (UWO CAPP)
  - Precalculus (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist (MOS)
- QuickBooks Certified User
- Youth Leadership Certificate





### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Personal Finance</li> </ul>	<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Economics</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• AP Macro Economics*</li> <li>• AP Micro Economics*</li> <li>• Business Leadership</li> <li>• LAUNCH Analytics Strand               <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- Future Business Leaders of America

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• College Accounting</li> <li>• Entrepreneurship</li> <li>• Business Law</li> <li>• Business Management</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p><b>Computer Science:</b></p> <ul style="list-style-type: none"> <li>• Cybersecurity</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Precalculus*</li> <li>• Statistics*</li> <li>• Data Analysis*</li> <li>• AP Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• AP Micro Economics</li> <li>• AP Macro Economics</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* Dual Credit Course

### DUAL COLLEGE CREDIT OPPORTUNITIES

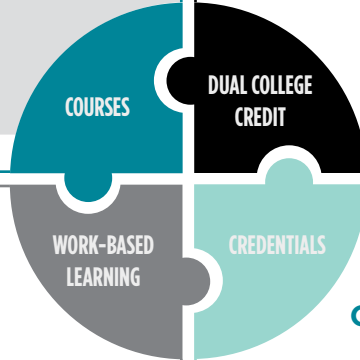
- AP Statistics
- AP Macro Economics
- AP Micro Economics
  - AP Statistics
- Financial Management & Investing (UWO CAPP)
- Precalculus (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship

### INDUSTRY-RECOGNIZED CREDENTIALS

- Microsoft Office Specialist (MOS)
- Youth Leadership Certificate
- IT Specialist
- QuickBooks Certified User





# GOVERNMENT & PUBLIC ADMINISTRATION

Jobs in this cluster involve planning, managing, and providing government, administrative, and regulatory services at the federal, state, and local levels. While nearly every occupation can be found within government, this cluster focuses on only six concentrations.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Foreign Service</b>				
			<ul style="list-style-type: none"> <li>• International Studies</li> <li>• Sociology</li> <li>• Geography and History</li> <li>• International Business</li> <li>• Economics Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Survey, Research and Methodology</li> <li>• Sociology</li> <li>• Economics</li> <li>• Statistics</li> </ul>
<b>Governance</b>				
			<ul style="list-style-type: none"> <li>• Political Science</li> <li>• Geography</li> <li>• Economic Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Political Science</li> <li>• Geography</li> <li>• Economic Statistics</li> <li>• Research and Methodology</li> </ul>
<b>National Security</b>				
			<ul style="list-style-type: none"> <li>• Military Science</li> <li>• Psychology</li> <li>• Electrical or Computer Engineering</li> <li>• Foreign Language</li> </ul>	<ul style="list-style-type: none"> <li>• Survey, Research and Methodology</li> </ul>
<b>Planning</b>				
			<ul style="list-style-type: none"> <li>• Economics</li> <li>• Geography</li> <li>• Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Community and Regional Planning</li> <li>• Economics</li> <li>• Architecture</li> <li>• Geography</li> <li>• Survey, Research and Methodology</li> </ul>
<b>Public Management &amp; Administration</b>				
			<ul style="list-style-type: none"> <li>• Actuarial Science</li> <li>• Management</li> <li>• Business Administration</li> <li>• Economics</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Public Administration</li> <li>• Survey, Research and Methodology</li> <li>• Actuarial Science</li> <li>• Economics</li> <li>• Statistics</li> </ul>
<b>Regulation</b>				
			<ul style="list-style-type: none"> <li>• Food Science and Technology</li> <li>• International Business</li> <li>• Economics</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Survey, Research and Methodology</li> <li>• Food Science and Technology</li> <li>• Economics</li> <li>• Statistics</li> </ul>
<b>Revenue &amp; Taxation</b>				
			<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Economics</li> <li>• Finance</li> <li>• Actuarial Science</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Economics</li> <li>• Finance</li> <li>• Actuarial Science</li> <li>• Family Financial Planning</li> <li>• Research and Methodology</li> </ul>



# HEALTH SCIENCE

This cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, medevac units, sports arenas, space centers, or within the community.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Biotechnology Research &amp; Development</b>				
	<ul style="list-style-type: none"> <li>Quality Assurance Technician</li> <li>Quality Control Technician</li> </ul>	<ul style="list-style-type: none"> <li>Clinical Laboratory</li> <li>Medical Laboratory</li> <li>Technician (CLT)</li> <li>Technician (MLT)</li> </ul>	<ul style="list-style-type: none"> <li>Biochemistry</li> <li>Immunology</li> <li>Medical Technology</li> <li>Microbiology</li> <li>Neuroscience</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy</li> <li>Biochemistry</li> <li>Oncology Biology</li> <li>Virology</li> <li>Epidemiology</li> </ul>
<b>Diagnostic Services</b>				
<ul style="list-style-type: none"> <li>Please see detailed regional Patient Care Career Pathway on the following page</li> </ul>				
<b>Health Informatics</b>				
<ul style="list-style-type: none"> <li>Coding Experience</li> <li>Data Entry</li> <li>Community Service</li> </ul>	<ul style="list-style-type: none"> <li>Health Records</li> <li>Technology Medical</li> <li>Assisting Medical Librarian</li> <li>Medical Transcription</li> </ul>	<ul style="list-style-type: none"> <li>Health Information Technology</li> <li>Medical Coding</li> <li>Medical Office Services</li> </ul>	<ul style="list-style-type: none"> <li>Community Health</li> <li>Health Care Administration</li> <li>Health Education</li> </ul>	<ul style="list-style-type: none"> <li>Health Care Administration</li> <li>Library Science</li> <li>Nursing Administration</li> <li>Public Health</li> </ul>
<b>Support Services</b>				
<ul style="list-style-type: none"> <li>Central Services Assistant</li> <li>Dietary Manager</li> <li>Electrical/Electronic Equipment Repair</li> </ul>	<ul style="list-style-type: none"> <li>Dietary Management</li> <li>Electrical/Electronic Equipment Repair</li> <li>Medical Office Management</li> </ul>	<ul style="list-style-type: none"> <li>Dietary Management</li> <li>Medical Office Management</li> <li>Registered Dietetic Technician</li> </ul>	<ul style="list-style-type: none"> <li>Biomedical Technology</li> <li>Environmental Health &amp; Safety</li> <li>Prosthetic Therapies</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Health Sciences</li> <li>Industrial/Operations</li> <li>Engineering</li> <li>Public Health</li> </ul>
<b>Therapeutic Services</b>				
<ul style="list-style-type: none"> <li>Please see detailed regional Patient Care Career Pathway on the following page</li> </ul>				



## PATIENT CARE Regional Career Pathway

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Therapeutic Services - Direct Care</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• Nursing Assistant *◇</li> </ul> Salary Range: \$24,400-\$38,700	<ul style="list-style-type: none"> <li>• Medical Assistant *◇</li> <li>• Pharmacy Technician *</li> </ul> Salary Range: \$29,700-\$46,800	<ul style="list-style-type: none"> <li>• Dental Hygienist</li> <li>• Paramedic *◇</li> <li>• Respiratory Therapist *◇</li> <li>• Surgical Technologist *◇</li> <li>• Anesthesia Technologist</li> </ul> Salary Range: \$21,900 - \$81,100	<ul style="list-style-type: none"> <li>• Physical Therapist ◇</li> <li>• Occupational Therapist ◇</li> <li>• Pharmacist ◇</li> <li>• Speech Language Pathologist ◇</li> <li>• Physician *◇</li> </ul> Salary Range: \$75,500-\$208,000+
<b>Therapeutic Services - Nursing</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• Nursing Assistant *◇</li> </ul> Salary Range: \$24,400-\$38,700		<ul style="list-style-type: none"> <li>• Registered Nurse (ADN) *◇</li> </ul> Salary Range: \$53,700-\$93,900	<ul style="list-style-type: none"> <li>• Registered Nurse (BSN) *◇</li> <li>• Clinical Nurse Specialist *◇</li> <li>• Nurse Anesthetist *◇</li> <li>• Nurse Practitioner *◇</li> <li>• Professor or Nurse Educator *</li> </ul> Salary Range: \$46,600-\$208,000+
<b>Therapeutic Services - Behavioral Health</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• Nursing Assistant *◇</li> </ul> Salary Range: \$24,400-\$38,700		<ul style="list-style-type: none"> <li>• Community and Social Service Specialist</li> </ul> Salary Range: \$22,100 - \$50,900	
<b>Diagnostic Services</b>				
<ul style="list-style-type: none"> <li>• Activities Assistant</li> <li>• Dietary Aide</li> <li>• Home Health Aide *</li> <li>• Environmental Services ◇</li> <li>• Medical Office Specialist ◇</li> <li>• Patient Advocate</li> <li>• Personal Care Aide *◇</li> <li>• Transporter</li> </ul> Salary Range: \$17,200-\$46,200	<ul style="list-style-type: none"> <li>• EKG Technician</li> <li>• Ophthalmic Lab Technician ◇</li> <li>• Phlebotomist *◇</li> <li>• Sterile Processing Technician</li> </ul> Salary Range: \$26,800-\$72,000		<ul style="list-style-type: none"> <li>• Cardiovascular Technician ◇</li> <li>• Medical Laboratory Technician *</li> <li>• Radiologic Technologist *Salary Range: \$32,400-\$104,100</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic Medical Sonographer *◇</li> <li>• Clinical Laboratory Scientist *</li> <li>• Nuclear Medicine Technologist ◇</li> <li>• Radiologist ◇</li> </ul> Salary Range: \$32,420-\$208,000+

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• PLTW Human Body Systems*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• PLTW Medical Interventions*</li> <li>• Anatomy &amp; Physiology</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Medicine &amp; Healthcare Strand                             <ul style="list-style-type: none"> <li>• Culture of Healthcare*</li> <li>• Medical Terminology*</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- HOSA
- Coaches Vs. Cancer Club
- HOPE Squad
- Psychology Club
- Red Cross Club
- RedGen Club
- Science National Honors Society
- Science Bowl
- Science Olympiad
- SMART Team

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Health/PE:

- Exercise Science
- Ultimate Strength & Conditioning

#### Math:

- Statistics\*
- Data Analysis\*

#### Science:

- Anatomy & Physiology
- PLTW Principles of Biomedical Science\*
- PLTW Biomedical Innovation\*

#### Social Studies:

- Psychology
- Abnormal Psychology
- AP Psychology\*

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Psychology
- Medical Terminology (WCTC)
- Culture of Healthcare (WCTC)
- Certified Nursing Assistant (Gateway)
- PLTW Biomedical innovation
- PLTW Human Body Systems
  - PLTW Medical Interventions
  - PLTW Principles of Biomedical Science

### WORK-BASED LEARNING OPTIONS

- Nursing Assistant Youth Apprenticeship (Certification required)
- Dental Assistant (Certification required)
- Pharmacy Technician (Certification required)
- Medical Assistant Youth Apprenticeship (Certification required)
- Employability Skills
- Health Science Youth Apprenticeship
- Local Work-based Learning Programs that meet state quality requirements

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- CNA-Certified Nursing Assistant
- Upon Student Request:
- Basic Life Support or Professional Rescuer CPR/AED and First Aid
  - Medication Aide/Assistant
  - Feeding Assistant
  - Emergency Medical Responder
  - Medical Assistant (AAMA, AMT, NHA)
  - Pharmacy Technician
  - Emergency Medical Technician
  - Phlebotomy (AMT, NHA)
  - Phlebotomy Technician
  - IV Technician
  - EKG Technician



# HOSPITALITY AND TOURISM

This Career Cluster prepares learners for careers in the management, marketing, and operations of restaurants and other food service, lodging, attractions, recreation events, and travel-related services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Lodging</b>				
<ul style="list-style-type: none"> <li>Bell Captain</li> <li>Guest Room Attendant</li> <li>Reservationist</li> </ul>	<ul style="list-style-type: none"> <li>Hotel Management</li> </ul>	<ul style="list-style-type: none"> <li>Hotel Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Lodging Management</li> <li>Sales and Marketing</li> </ul>	
<b>Recreation, Amusements and Attractions</b>				
<ul style="list-style-type: none"> <li>Museums/Zoos/Aquarium Docent</li> <li>Resort Instructor</li> <li>Theme Parks Retail Manager</li> </ul>			<ul style="list-style-type: none"> <li>Business Administration Management</li> <li>Recreation, Fitness, and Leisure Studies</li> <li>Sports &amp; Fitness Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>
<b>Restaurants &amp; Food and Beverage Services</b>				
<ul style="list-style-type: none"> <li>Cook</li> <li>Dishwasher</li> <li>Wait Staff</li> </ul>	<ul style="list-style-type: none"> <li>Culinary Arts and Management</li> <li>Dietary Management</li> <li>Food Service/Hospitality</li> <li>Food Service Management</li> </ul>		<ul style="list-style-type: none"> <li>Food Service &amp; Hospitality Management</li> <li>Restaurant and Food Service Administration</li> <li>Travel and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Restaurant/Food Service Administration</li> </ul>
<b>Travel &amp; Tourism</b>				
<ul style="list-style-type: none"> <li>Event Planner</li> <li>Ticket Agent</li> <li>Tour Guide</li> <li>Travel Agent</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Travel and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Sales and Marketing</li> <li>Travel and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Marketing</li> <li>Operations Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> </ul>



# HUMAN SERVICES

This Cluster prepares students for careers that improve quality of life and promotes safe, healthy communities. Workers in human services better our lives by tending to our psychological, social, and physical needs. Social service organizations that help individuals with basic needs, such as housing, health, and nutrition constitutes a large component of this cluster.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Consumer Services</b>				
<ul style="list-style-type: none"> <li>• Call Center</li> <li>• Customer Service</li> </ul>	<ul style="list-style-type: none"> <li>• Certified Financial Planner</li> <li>• Wellness</li> </ul>		<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Family Financial Management</li> <li>• Human Sciences</li> <li>• Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Human Sciences</li> <li>• Business Administration</li> </ul>
<b>Counseling and Mental Health Services</b>				
		<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Chemical Dependency Counselor</li> </ul>	<ul style="list-style-type: none"> <li>• Human &amp; Social Services</li> <li>• Psychology</li> <li>• Social Work</li> <li>• Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Marriage and Family Therapy</li> <li>• Psychology</li> <li>• Social Work</li> <li>• Community Counseling</li> </ul>
<b>Early Childhood Development and Services</b>				
	<ul style="list-style-type: none"> <li>• Nanny</li> <li>• Parenting</li> </ul>	<ul style="list-style-type: none"> <li>• Early Childhood Education</li> </ul>	<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Special Education and Communication Disorders</li> </ul>	<ul style="list-style-type: none"> <li>• Child Development</li> <li>• Early Childhood Education</li> <li>• Special Education and Communication Disorders</li> </ul>
<b>Family and Community Services</b>				
	<ul style="list-style-type: none"> <li>• Paraeducator</li> <li>• Family Life Specialist</li> <li>• Spirituality Biblical Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Theology</li> </ul>	<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Psychology &amp; Gerontology</li> <li>• Nutrition, Fitness, and Health Promotion</li> <li>• Social Work</li> </ul>	<ul style="list-style-type: none"> <li>• Family Science</li> <li>• Psychology</li> <li>• Social Work</li> <li>• Human Services</li> </ul>
<b>Personal Care Services</b>				
	<ul style="list-style-type: none"> <li>• Barbering</li> <li>• Cosmetology</li> <li>• Nail Technology</li> <li>• Esthetics</li> <li>• Massage Therapy</li> </ul>	<ul style="list-style-type: none"> <li>• Mortuary Science</li> <li>• Cosmetology</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Mortuary Sciences</li> </ul>	



# DIGITAL TECHNOLOGY

Digital Technology careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. IT education can be obtained in four-year colleges, two-year community colleges, technical colleges and institutes, and high schools.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification or Technical Diploma	Registered Apprenticeship	Associate Degree	Bachelor Degree and Beyond
<b>Business Analysis &amp; Project Management</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Tech Support Specialist *</li> </ul> Salary Range: \$30,400-\$76,800	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Business Systems Analyst *◇</li> <li>Tech Project Coordinator</li> <li>Technical Trainer</li> <li>SCRUM Master *</li> </ul> Salary Range: \$42,200-\$113,800	<ul style="list-style-type: none"> <li>Tech Support Manager</li> <li>IT Project Manager ◇</li> <li>Tech Director</li> </ul> Salary Range: \$42,200-180,500
<b>Cybersecurity</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Information Security Specialist *</li> </ul> Salary Range: \$44,800-\$131,000	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Information Security Analyst *</li> <li>Cryptographer</li> </ul> Salary Range: \$44,800-\$131,000	<ul style="list-style-type: none"> <li>Cyber Crime Investigator *</li> <li>Security Architect *</li> <li>Cybersecurity Engineer *</li> <li>Chief Information Security Officer *</li> </ul> Salary Range: \$38,400-\$336,000
<b>Data Technology</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Computer Operator</li> <li>Database Entry Specialist</li> </ul> Salary Range: \$20,700-\$47,900	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Database Developer *</li> </ul> Salary Range: \$63,900-\$143,200	<ul style="list-style-type: none"> <li>Data Architect *</li> <li>Data Warehouse Analyst *</li> <li>Business Intelligence Analyst *</li> <li>Data Scientist *</li> <li>GIS Specialist ◇</li> </ul> Salary Range: \$42,200-\$143,200
<b>Network &amp; Systems Infrastructure</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Systems Tech *</li> </ul> Salary Range: \$50,600-\$113,800	<ul style="list-style-type: none"> <li>Data Analyst *</li> <li>IT Service Desk Technician *</li> </ul> Salary Range: \$30,400-\$113,800	<ul style="list-style-type: none"> <li>Computer Network Specialist *◇</li> <li>Network Administrator *</li> </ul> Salary Range: \$41,200-\$113,300	<ul style="list-style-type: none"> <li>Network Architect *</li> <li>Hardware Engineer ◇</li> </ul> Salary Range: \$45,700-\$148,600
<b>Software Development &amp; Programming</b>				
<ul style="list-style-type: none"> <li>Support Technician *◇</li> <li>Data Entry Clerk ◇</li> <li>PC Technician ◇</li> <li>User Experience Tester *◇</li> <li>Web Designer ◇</li> </ul> Salary Range: \$20,700-\$97,800	<ul style="list-style-type: none"> <li>Junior Web Developer</li> <li>Mobile App Support *</li> <li>Quality Assurance Specialist</li> <li>User Interface/Experience Developer *</li> <li>Augmented/Virtual Reality Developer *</li> </ul> Salary Range: \$30,4700-\$150,4000	<ul style="list-style-type: none"> <li>Software Developer *</li> </ul> Salary Range: \$55,700-\$150,400	<ul style="list-style-type: none"> <li>Web Developer</li> <li>Application Developer *</li> <li>Programmer Analyst *</li> <li>Software Developer *</li> <li>SCRUM Master *</li> </ul> Salary Range: \$35,000-\$150,400	<ul style="list-style-type: none"> <li>Web Administrator ◇</li> <li>Computer Programmer *◇</li> <li>Software Engineer *◇</li> <li>Computer Scientist ◇</li> </ul> Salary Range: \$45,700-\$158,100

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEARS 1 & 2	YEAR 3	YEAR 4
<p>Students should consider taking ALL options:</p> <p><b>Mathematics:</b></p> <ul style="list-style-type: none"> <li>Honors Precalculus</li> <li>Statistics*</li> <li>Data Analysis*</li> </ul> <p><b>Computer Science:</b></p> <ul style="list-style-type: none"> <li>AP Computer Science Principles* and/or</li> <li>AP Computer Science A*</li> </ul>	<p>Students should take ANY one of these options:</p> <p><b>Mathematics:</b></p> <ul style="list-style-type: none"> <li>AP Statistics* and/or AP Calculus AB/BC*</li> </ul> <p><b>LAUNCH:</b></p> <ul style="list-style-type: none"> <li><b>Analytics Strand:</b> AP Statistics*, Business Strategy* &amp; Mentorship</li> <li><b>Automation, Robotics and Trends in IT Strand:</b> English 11/Writing for Research, Emerging Trends in IT &amp; Mentorship</li> <li><b>Engineering Foundations Strand:</b> English 11/Writing for Research, PLTW Engineering Design and Development* &amp; Mentorship</li> <li><b>Global Business Strand:</b> English 11/Writing for Research, Business Strategy* &amp; Mentorship</li> <li><b>Media Solutions Strand:</b> English 11/Writing for Research, Digital Imaging Seminar &amp; Mentorship</li> </ul>	<p>LAUNCH Data Science &amp; Intelligence for Careers Strand</p> <ul style="list-style-type: none"> <li>Python for Data Science*</li> <li>Math for Data Science</li> <li>Mentorship</li> </ul>

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- A TE:**
- Computer Aided Design (CAD)
  - PLTW Engineering Design and Development (EDD)\*

\* **Dual Credit Course** 

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- HOSA
- Chess Club
- Computer Science National Honor Society
- Math Club
- Mu Alpha Theta

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Calculus
- AP Computer Science A
- AP Computer Science Principles
- AP Statistics
- Business Strategy (UWO CAPP)
- PLTW Engineering Design & Development
- Python for Data Science (UWW)
- Statistics & Data Analysis (UWO CAPP)
- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

### WORK-BASED LEARNING OPTIONS

- IT Seminar and Youth Apprenticeship
- Information Technology Co-Op
- Employability Skills
- State Skill Standards Co-Op- Business/IT
- Local Work-based Learning Programs that meet state quality requirements

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
- Autodesk Certified User
- IC3 Digital Literacy Certification
- IT Specialist
- Microsoft Office Specialist (MOS)
- Comp TIA Security+



# LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

The Law, Public Safety, Corrections, and Security Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Correction Services</b>				
<ul style="list-style-type: none"> <li>• Correctional Officer</li> <li>• Security Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> <li>• Corrections Officer</li> <li>• Parole Officer</li> <li>• Probations Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Human Services</li> <li>• Criminal Justice</li> <li>• Social Work</li> <li>• Pre-Law</li> </ul>	<ul style="list-style-type: none"> <li>• Law and Legal Services</li> <li>• Criminal Justice</li> </ul>
<b>Emergency &amp; Fire Management Services</b>				
<ul style="list-style-type: none"> <li>• Police, Fire, and Ambulance Dispatch</li> <li>• Volunteer Firefighting</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency Medical Technician (EMT)</li> <li>• Emergency Management</li> <li>• Fire Science Technology</li> <li>• Hazardous Materials Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency Medical Technician (EMT)</li> <li>• Fire Protection</li> <li>• Fire Science Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency Medical Services</li> </ul>	
<b>Legal Services</b>				
<ul style="list-style-type: none"> <li>• Animal Control</li> <li>• Parking Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice - Law Enforcement</li> <li>• Wisconsin Law Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>
<b>Security &amp; Protective Services</b>				
	<ul style="list-style-type: none"> <li>• Paralegal Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Administrative Assistant - Legal</li> <li>• Paralegal/Legal Assistant</li> <li>• Criminal Justice - Court Emphasis</li> </ul>	<ul style="list-style-type: none"> <li>• Paralegal Studies</li> <li>• Pre-Law/Legal Studies</li> <li>• Criminal Justice</li> </ul>	<ul style="list-style-type: none"> <li>• Law and Legal Studies</li> <li>• Criminal Justice</li> </ul>
<b>Correction Services</b>				
		<ul style="list-style-type: none"> <li>• Criminal Justice - Law Enforcement</li> <li>• Wisconsin Law Enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> <li>• Law and Legal Studies</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice</li> </ul>



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking:</p> <ul style="list-style-type: none"> <li>Human Geography or AP Human Geography*</li> </ul>	<p>Students should take ANY of these options:</p> <ul style="list-style-type: none"> <li>Psychology</li> <li>AP Psychology*</li> <li>Business Law</li> </ul>	<p>Students should take ANY of these options:</p> <ul style="list-style-type: none"> <li>AP United States Government and Politics*</li> <li>LAUNCH Law and Public Policy Strand               <ul style="list-style-type: none"> <li>AP English Language and Composition*</li> <li>Current Issues</li> <li>Crime, Society and Law</li> <li>Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- ARCh Youth Club
- B'East PAC
- Black Student Union
- Culture Club
- Debate Club
- Distinguished Young Women
- Gay Straight Alliance
- Mock Trial
- Model United Nations
- Muslim Student Club
- PRISM Club
- She's the First Student Council
- UNICEF

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Capstone:</b></p> <ul style="list-style-type: none"> <li>AP Seminar*</li> <li>AP Research*</li> </ul> <p><b>English:</b></p> <ul style="list-style-type: none"> <li>Speech Communication</li> <li>Public Speaking*</li> <li>Writing for College*</li> <li>AP English Language and Composition*</li> </ul>	<p><b>Mathematics:</b></p> <ul style="list-style-type: none"> <li>Precalculus*</li> <li>Statistics*</li> <li>Data Analysis*</li> <li>AP Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>Abnormal Psychology</li> <li>AP Micro Economics*</li> <li>AP Macro Economics*</li> <li>AP U.S. Government &amp; Politics*</li> <li>AP U.S. History*</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>Any World Language</li> </ul>
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\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Human Geography
- AP Psychology
- AP English Language & Composition
- AP US Government and Politics
- AP US History
- AP Macro Economics
- AP Micro Economics
- AP Research
- AP Seminar
- Precalculus (UWO CAPP)
- Public Speaking (UWO CAPP)
- Writing for College (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)
  - Advanced World Languages (UWO CAPP)

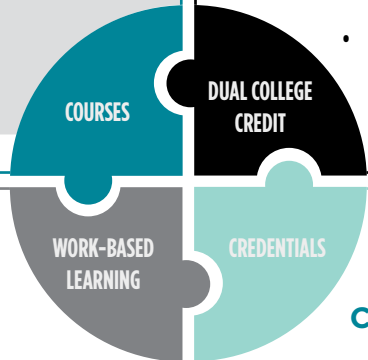
### WORK-BASED LEARNING OPTIONS

- LAUNCH (Work-based mentorship and project-based learning) Law and Public Policy (Advanced Level Coursework, Year 3 or 4)

### INDUSTRY-RECOGNIZED CREDENTIALS

Upon Student Request:

- Harper: Paralegal Studies





# ADVANCED MANUFACTURING

Despite improvements in production technology and rising imports, manufacturing employment is expected to increase slightly as strong demand continues for high-tech electrical goods and pharmaceuticals. Between 2002 and 2012, pharmaceutical and medicine manufacturing employment is expected to increase by 68,000 jobs, plastics and rubber products manufacturing by 138,000 jobs, machinery manufacturing by 120,000 jobs, and a 97,000 projected job growth for fabricated metal product manufacturing.



**INTERACTIVE PDF**  
Click on each job title to learn more!

## POSSIBLE CAREERS Where do I want to go?

High School Diploma/ Certification	Certification/ Technical Diploma	Registered Apprenticeship	Associate's Degree	Bachelor's Degree and Beyond
<b>Production</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Paint Technician *</li> <li>Food Processing Operator</li> <li>Welder *</li> <li>Sheet Metal Worker ◇ *</li> <li>Production Technician *</li> </ul> Salary Range: \$20,100-\$81,300	<ul style="list-style-type: none"> <li>Industrial Pipefitter *</li> <li>Tool and Die Maker *</li> <li>Pattern Maker</li> <li>Machinist ◇ *</li> <li>Mold Maker</li> </ul> Salary Range: \$25,700-\$99,700	<ul style="list-style-type: none"> <li>Manufacturing Machine Operator ◇ *</li> </ul> Salary Range: \$28,600-\$54,400	<ul style="list-style-type: none"> <li>Manufacturing Manager ◇ *</li> <li>Operations Manager</li> </ul> Salary Range: \$54,100-\$250,100
<b>Engineering and Design</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>CAD Drafter</li> <li>Quality Assurance Technician *</li> </ul> Salary Range: \$35,000-\$75,900		<ul style="list-style-type: none"> <li>Drafter ◇ *</li> </ul> Salary Range: \$35,000-\$75,900	<ul style="list-style-type: none"> <li>Electrical Engineer ◇</li> <li>Mechanical Engineer ◇</li> <li>Environmental Engineer ◇</li> <li>Quality Controller ◇ *</li> </ul> Salary Range: \$35,700-\$126,800
<b>Industry 4.0 (Automation)</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Robotic Welder *</li> <li>Quality Controller ◇ *</li> <li>Robotics Technician *</li> </ul> Salary Range: \$32,900-\$92,100	<ul style="list-style-type: none"> <li>Electrical Discharge Machining Technician</li> </ul> Salary Range: \$36,800-\$77,900	<ul style="list-style-type: none"> <li>Electronics Engineering Tech ◇</li> <li>Computer Network Specialist ◇</li> <li>Manufacturing Engineer Tech</li> <li>Business Analyst *</li> <li>Chemical Engineering Tech ◇</li> </ul> Salary Range: \$33,800-\$127,500	<ul style="list-style-type: none"> <li>Process Engineer *</li> <li>Business Intelligence Analyst</li> <li>Chemical Engineer</li> <li>Computer Scientist ◇ *</li> </ul> Salary Range: \$54,100-\$158,100
<b>Electro-Mechanical</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Electrical Engineering Tech ◇ *</li> <li>Industrial Engineering Tech ◇ *</li> <li>Industrial Maintenance Mechanic ◇ *</li> </ul> Salary Range: \$35,300-\$79,700	<ul style="list-style-type: none"> <li>Millwright ◇ *</li> <li>CNC Technician *</li> <li>Industrial Electrician *</li> <li>Industrial Machinery Technician ◇</li> <li>Maintenance Mechanic ◇ *</li> <li>Mechatronics Technician *</li> </ul> Salary Range: \$23,600-\$95,300	<ul style="list-style-type: none"> <li>Mechanical Engineering Technician</li> <li>Electrical Engineer Technician</li> <li>Electro-mechanical Technician</li> </ul> Salary Range: \$34,300-\$89,100	<ul style="list-style-type: none"> <li>Industrial Engineer ◇ *</li> <li>Manufacturing Engineer *</li> <li>Electrical Engineer ◇</li> </ul> Salary Range: \$50,300-\$117,700
<b>Supply Chain</b>				
<ul style="list-style-type: none"> <li>Engine/Machine Assembler ◇ *</li> <li>Data Entry Clerk ◇</li> <li>General Laborer</li> <li>Shipping &amp; Receiving Clerk ◇</li> <li>Packager</li> </ul> Salary Range: \$17,900-\$53,800	<ul style="list-style-type: none"> <li>Robotics and Material Handler Technician</li> <li>Inventory Control *</li> </ul> Salary Range: \$23,500-\$74,500		<ul style="list-style-type: none"> <li>Buyer</li> <li>Production Planner</li> <li>Logistics Analyst</li> </ul> Salary Range: \$32,900-\$98,500	<ul style="list-style-type: none"> <li>Purchasing Managers</li> <li>Supply Chain Analyst</li> <li>Procurement Manager *</li> <li>Data Warehouse Analyst *</li> </ul> Salary Range: \$63,900-\$155,900

\* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!  
 ◇ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)

# Manufacturing Production Process Development

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• PLTW Introduction to Engineering Design (IED)*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• PLTW Computer Integrated Manufacturing &amp; Automation*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Advanced Manufacturing Technologies                             <ul style="list-style-type: none"> <li>• AP Computer Science Principles*</li> <li>• Future Makers Capstone</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Automation, Robotics and Trends in IT                             <ul style="list-style-type: none"> <li>• Emerging Trends in IT</li> <li>• English 11/Writing for Research</li> <li>• Mentorship</li> </ul> </li> <li>• PLTW Engineering Design and Development (EDD) Capstone*</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Robotics FRC
- Robotics FTC
- Women in Engineering

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

### ART/ATE:

- Digital Imaging and Design I, II, Seminar

### ATE:

- Computer Aided Design (CAD)
- PLTW Principles of Engineering (POE)\*

### COMPUTER SCIENCE:

- AP Computer Science A\*

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Computer Science A
- AP Computer Science Principles
- PLTW Computer Integrated Manufacturing & Automation
- PLTW Engineering Design and Development
- PLTW Intro to Engineering Design
- PLTW Principles of Engineering
- You can find the list of college credit opportunities included in the postsecondary options for this pathway [HERE](#)

## WORK-BASED LEARNING OPTIONS

- LAUNCH (Work-based mentorship and project-based learning) Advanced Manufacturing Technologies (Advanced Level Coursework, Year 3 or 4)
- Employability Skills Co-Op
- Youth Apprenticeship-Manufacturing

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Autodesk Certified User
  - IC3 Digital Literacy Certification
  - IT Specialist
  - Haas CNC Certification
- Upon Student Request:
- American Welding Society (AWS) Level 1 Entry Welder
  - Manufacturing Skills Standards Council-Certified Production Technician (full program or any of the modules)
  - National Institute for Metal Working Skills (NIMS)



# MARKETING

The Marketing Cluster includes career opportunities whose processes create, communicate, and deliver value to customers and manage customer relationships in ways that benefit the organization and its stakeholders.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Marketing Communications</b>				
	<ul style="list-style-type: none"> <li>Practitioners</li> <li>Public Relations</li> <li>Public Relations Society of America</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Marketing</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Communications Management</li> <li>Marketing</li> <li>Public Relations</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>
<b>Marketing Management</b>				
<ul style="list-style-type: none"> <li>Industrial and Trade Association Programs</li> <li>Conference Seminars</li> </ul>		<ul style="list-style-type: none"> <li>Business Administration</li> <li>Entrepreneurship Management</li> <li>Marketing</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration Management</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>
<b>Marketing Research</b>				
	<ul style="list-style-type: none"> <li>Product Vendors</li> <li>Professional and Technical Organizations</li> <li>Software Firms</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Continued Education for Rapid Technological Advances</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Economics</li> <li>Information Science/Systems Management</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>
<b>Merchandising</b>				
		<ul style="list-style-type: none"> <li>Business Administration</li> <li>Business Marketing</li> <li>Merchandising/Sales</li> <li>Customer Service</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration Management</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> </ul>
<b>Professional Selling</b>				
	<ul style="list-style-type: none"> <li>Management</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Business Administration</li> <li>Marketing</li> <li>Retail Management</li> <li>Small Business Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration Management</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Master of Business Administration</li> <li>Master of Marketing</li> </ul>

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Business Leadership (Level 1) Capstone</li> <li>• LAUNCH Media Solutions Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Digital Imaging Seminar</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Art Club
- Community Art Club
- Forensics
- Spartan Banner
- Student Council
- Yearbook

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Business Law</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Creative Writing*</li> <li>• Speech Communication</li> <li>• Writing for Publication</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• Statistics*</li> <li>• AP Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
- Business Strategy (UWO CAPP)
- Business & Society (UWM)
- Data Analysis & Statistics (UWO CAPP)
- Creative Writing (UWO CAPP)

## WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship
- Advanced Marketing Co-Op

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
- Microsoft Office Specialist (MOS)
- Youth Leadership Certificate

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> <li>• Business Management</li> <li>• Business Law</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Business Leadership Level 1 Capstone</li> <li>• LAUNCH Analytics Strand                             <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Class Council
- Community Art Club
- Distinguished Young Women
- Forensics
- Key Club
- Link Crew
- Spartan Banner
- Student Council
- Yearbook

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Marketing</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Creative Writing*</li> <li>• Speech Communication</li> <li>• Writing for Publication</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
- Business & Society (UWM)
- Business Strategy (UWO CAPP)
- Creative Writing (UWO CAPP)
- Financial Management & Investing (UWO CAPP)
- Statistics & Data Analysis (UWO CAPP)

## WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship
- Sports and Entertainment Co-Op

## INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
- Microsoft Office Specialist (MOS)
- Youth Leadership Certificate



### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ALL options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• AP Macro Economics*</li> <li>• AP Micro Economics*</li> <li>• LAUNCH Analytics Strand                             <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Computer Science National Honor Society
- Forensics
- Math Club
- Student Council
- SMART Team

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> <li>• Video Production</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Business Law</li> <li>• Financial Management &amp; Investing*</li> </ul>	<p><b>Capstone:</b></p> <ul style="list-style-type: none"> <li>• AP Research*</li> <li>• AP Seminar*</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
- AP Research
- AP Statistics
- AP Seminar
- Business & Society (UWM)
  - Business Strategy (UWO CAPP)
    - Financial Management & Investing (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)

### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship
- Marketing Co-Op

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
- Microsoft Office Specialist (MOS)
- Youth Leadership Certificate

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> <li>• Digital Imaging I</li> </ul>	<p>Students should take ALL one of these options:</p> <ul style="list-style-type: none"> <li>• Digital Imaging II</li> <li>• Sports &amp; Entertainment Marketing</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Global Business Strand</li> <li>• English 11/Writing for Research</li> <li>• Business Strategy*</li> <li>• Mentorship</li> <li>• LAUNCH Business &amp; Society</li> <li>• Business &amp; Society*</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Community Art Club
- Economics Club
- Forensics
- Spartan Banner
- Student Council
- Yearbook

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> <li>• Video Production</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> <li>• Business Leadership</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Writing for Publication</li> <li>• Speech Communication</li> <li>• Public Speaking*</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• Data Analysis*</li> <li>• AP Statistics*</li> <li>• Statistics*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Macro Economics
- AP Micro Economics
- AP Statistics
- Business Strategy (UWO CAPP)
- Business & Society (UWM)
- Data Analysis & Statistics (UWO CAPP)
- Public Speaking (UWO CAPP)

## WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship
- Retail Management Co-Op

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Adobe Certified Associate (ACA)
- Microsoft Office Specialist (MOS)
- Youth Leadership Certificate

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> </ul>	<p>Students should take ALL one of these options:</p> <ul style="list-style-type: none"> <li>• Sports &amp; Entertainment Marketing</li> <li>• Data Analysis*</li> <li>• Statistics*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• LAUNCH Global Business Strand                             <ul style="list-style-type: none"> <li>• English 11/Writing for Research</li> <li>• Business Strategy*</li> <li>• Mentorship</li> </ul> </li> <li>• Business &amp; Society*</li> <li>• Financial Management and Investing*</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- DECA
- FBLA
- Communication & Networking for Future Leaders
- Community Art Club
- Economics Club
- Forensics
- Spartan Banner
- Student Council
- Yearbook

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

<p><b>Art/ATE:</b></p> <ul style="list-style-type: none"> <li>• Digital Imaging I</li> <li>• Digital Imaging II</li> <li>• Yearbook Publication</li> <li>• Video Production</li> </ul> <p><b>Business:</b></p> <ul style="list-style-type: none"> <li>• Introduction to Business</li> <li>• Introduction to Marketing</li> <li>• Business Leadership</li> </ul>	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• Writing for Publication</li> <li>• Speech Communication</li> </ul> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• AP Statistics*</li> <li>• Statistics*</li> <li>• Data Analysis*</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• Current Issues</li> <li>• Economics</li> <li>• AP Micro Economics*</li> <li>• AP Macro Economics*</li> <li>• Modern Society</li> <li>• Psychology</li> </ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"> <li>• Any World Language</li> </ul>
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\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

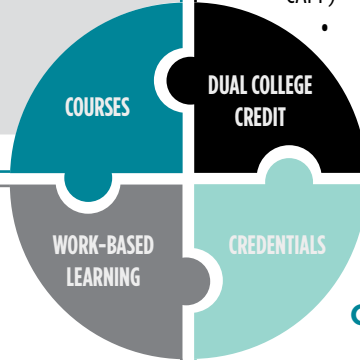
- AP Macro Economics
- AP Micro Economics
- Business & Society (UWM)
- Business Strategy (UWO CAPP)
- Financial Management & Investing (UWO CAPP)
  - Statistics & Data Analysis (UWO CAPP)

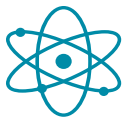
### WORK-BASED LEARNING OPTIONS

- Business/Finance/Marketing Seminar and Youth Apprenticeship
- E-Commerce Co-op
- Entrepreneurship Co-op
- Professional Sales Co-op

### INDUSTRY-RECOGNIZED CREDENTIALS

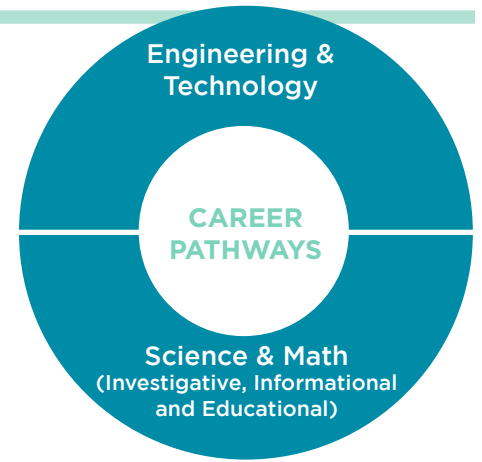
- Adobe Certified Associate (ACA)
- Microsoft Office Specialist (MOS)
- Youth Leadership Certificate





# SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

A career in Science, Technology, Engineering, or Mathematics is exciting, challenging, and ever-changing. Learners who pursue this cluster will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Engineering &amp; Technology</b>				
	<ul style="list-style-type: none"> <li>Industrial Technology</li> </ul>	<ul style="list-style-type: none"> <li>Architectural Design Technology</li> <li>Civil Engineering Technology</li> <li>Industrial Technology</li> <li>Surveying and Computer Aided Drafting (CAD)</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Engineering</li> <li>Biological Systems Engineering</li> <li>Chemical Engineering</li> <li>Construction Engineering Technology</li> <li>Industrial Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural and Biological Systems</li> <li>Architectural Engineering</li> <li>Chemical Engineering</li> <li>Civil Engineering</li> <li>Mechanical Engineering</li> </ul>
<b>Science &amp; Math (Investigative, Informative and Educational)</b>				
		<ul style="list-style-type: none"> <li>Biology</li> <li>Chemistry</li> <li>Laboratory Science Technology</li> <li>Medical Laboratory Technology</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry</li> <li>Economics</li> <li>Mathematics</li> <li>Molecular Biology</li> <li>Physics</li> </ul>	<ul style="list-style-type: none"> <li>Biochemistry</li> <li>Biological Sciences</li> <li>Chemistry</li> <li>Physics and Astronomy</li> <li>Statistics</li> </ul>

## SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>• PLTW Introduction to Engineering Design (IED)*</li> <li>• Precalculus*</li> <li>• Robotics &amp; Automation</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• PLTW Computer Integrated Manufacturing &amp; Automation*</li> <li>• PLTW Principles of Engineering*</li> <li>• Computer Aided Design (CAD)</li> <li>• PLTW Civil Engineering and Architecture</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>• PLTW Aerospace Engineering*</li> <li>• PLTW Engineering Design and Development (EDD)*</li> </ul> <p><b>LAUNCH:</b></p> <ul style="list-style-type: none"> <li>• <b>Automation, Robotics and Trends in IT Strand:</b> English 11/Writing for Research, Emerging Trends in IT &amp; Mentorship</li> <li>• <b>Engineering Foundations Strand:</b> English 11/Writing for Research, PLTW Engineering Design and Development* &amp; Mentorship</li> </ul>

## ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Math Club
- Robotics - FRC
- Robotics - FTC
- Society of Women Engineers

## RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Honors Precalculus</li> <li>• AP AB Calculus*</li> <li>• AP BC Calculus*</li> <li>• Calculus III*</li> </ul> | <ul style="list-style-type: none"> <li>• Intro to Computer Science</li> <li>• AP Computer Science Principles*</li> <li>• Intro to Digital Electronics and Programming</li> </ul> |
|---|--|

\* **Dual Credit Course**

## DUAL COLLEGE CREDIT OPPORTUNITIES

- AP AB Calculus
- AP BC Calculus
- AP Computer Science Principles
- Calculus III (UWO CAPP)
- Precalculus (UWO CAPP)
- PLTW Aerospace Engineering
- PLTW Computer Integrated Manufacturing & Automation
- PLTW Engineering Design and Development
  - PLTW Intro to Engineering Design
- PLTW Principles of Engineering
- PLTW Civil Eng & Arch

## WORK-BASED LEARNING OPTIONS

- Information Technology Co-op
- STEM Seminar and Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Autodesk Certified User
- IC3 Digital Literacy Certification
- IT Specialist
- Microsoft Office Specialist (MOS)



# TRANSPORTATION, DISTRIBUTION AND LOGISTICS

This Cluster exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail, and water.



## POSSIBLE CAREERS Where do I want to go?

High School Diploma On-The-Job Training	Certifications/ Licenses	Associate's Degree	Bachelor's Degree	Master's/Doctoral Professional Degree
<b>Facility &amp; Mobile Equipment Maintenance</b>				
<ul style="list-style-type: none"> <li>Auto Body Repair</li> <li>Automotive and Diesel Technology</li> </ul>	<ul style="list-style-type: none"> <li>Auto Body Repair</li> <li>Auto Mechanics</li> <li>Aviation Airframe Maintenance</li> <li>Industrial Maintenance</li> <li>Electronics</li> </ul>	<ul style="list-style-type: none"> <li>Aeronautical and Aerospace</li> <li>Engineering Technology</li> <li>Automotive Technology</li> <li>Aviation Airframe Maintenance</li> <li>Electronic Technology</li> </ul>	<ul style="list-style-type: none"> <li>Engineering</li> <li>Industrial Engineering</li> <li>Mechanical Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Industrial and Management Systems</li> <li>Engineering</li> <li>Mechanical Engineering</li> </ul>
<b>Health, Safety &amp; Environmental Management</b>				
		<ul style="list-style-type: none"> <li>Environmental Engineering Technology</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Physics</li> <li>Environmental Engineer</li> <li>Environmental Science</li> <li>Environmental Studies</li> <li>Industrial Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Engineering</li> <li>Environmental Science</li> <li>Environmental Studies</li> </ul>
<b>Logistics Planning &amp; Management Services</b>				
	<ul style="list-style-type: none"> <li>Business</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Industrial Technology</li> <li>Logistics and Materials Management</li> </ul>	<ul style="list-style-type: none"> <li>Business Administration</li> <li>Industrial Distribution &amp; Technology</li> <li>Management Technology</li> <li>Operations Management</li> <li>Logistics and Materials Management</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Management</li> <li>Industrial and Management Systems</li> <li>Engineering</li> <li>Operations Management</li> </ul>
<b>Sales &amp; Services</b>				
<ul style="list-style-type: none"> <li>Cashier</li> <li>Customer Service</li> <li>Travel Agent</li> </ul>	<ul style="list-style-type: none"> <li>Desktop Publishing</li> <li>Entrepreneurship</li> <li>Parts, Sales, and Management</li> <li>Travel Services</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Marketing</li> <li>Marketing Management</li> <li>Parts, Sales, and Management</li> </ul>	<ul style="list-style-type: none"> <li>Advertising</li> <li>Business</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Advertising</li> <li>Business</li> <li>Marketing</li> </ul>
<b>Transportation Operations</b>				
<ul style="list-style-type: none"> <li>Taxi Driving</li> <li>Locomotive Engineering</li> <li>Bus Driving</li> <li>Truck Driving</li> </ul>	<ul style="list-style-type: none"> <li>Air Traffic Control</li> <li>ADL Driver Training Class A, B</li> <li>Commercial Pilot and Flight Crew Training</li> <li>Vehicle and Equipment Operation</li> </ul>	<ul style="list-style-type: none"> <li>Air Traffic Control</li> <li>Commercial Pilot and Flight Crew Training</li> </ul>	<ul style="list-style-type: none"> <li>Air Traffic Control</li> </ul>	
<b>Transportation/Systems Infrastructure Planning, Management &amp; Regulations</b>				
		<ul style="list-style-type: none"> <li>Civil Engineering</li> <li>Surveying and CAD</li> </ul>	<ul style="list-style-type: none"> <li>Aviation Systems Management</li> <li>Civil Engineering</li> <li>Maritime Science</li> <li>Naval Architecture and Marine Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Civil Engineering</li> <li>Engineering Management</li> <li>Naval Architecture and Marine Engineering</li> </ul>
<b>Warehousing &amp; Distribution Center Operations</b>				
<ul style="list-style-type: none"> <li>Shipping and Receiving</li> <li>Storage Distribution</li> </ul>	<ul style="list-style-type: none"> <li>CDL Driver Training Class A, B</li> <li>Forklift Training</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Logistics and Materials Management</li> <li>Warehouse Management</li> </ul>	<ul style="list-style-type: none"> <li>Business</li> <li>Logistics and Materials Management</li> </ul>	<ul style="list-style-type: none"> <li>Logistics and Materials Management</li> </ul>

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>Power Systems: Small Engine and Auto</li> <li>PLTW Intro to Engineering Design (IED)*</li> <li>Computer Aided Design (CAD)</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>Auto Service Fundamentals A*</li> <li>Auto Service Fundamentals B*</li> <li>PLTW Principles of Engineering (POE)*</li> <li>PLTW Computer Integrated Manufacturing &amp; Automation*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>PLTW Engineering Design &amp; Development (EDD)*</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Robotics- FRC
- Robotics- FTC
- Society of Women Engineers

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Computer Science:

- AP Computer Science Principles\*

- Entrepreneurship

#### Business:

- Business Management

\* **Dual Credit Course**

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Computer Science Principles
- Auto Service Fundamentals A&B (WCTC)
- PLTW Computer Integrated Manufacturing & Automation
- PLTW Engineering Design & Development
- PLTW Intro to Engineering Design
- PLTW Principles of Engineering

### WORK-BASED LEARNING OPTIONS

- Transportation, Distribution, Logistics Seminar and Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- Autodesk Certified User
- IC3 Digital Literacy Certification
- Automotive Service Excellence (ASE) Certification

### SEQUENCE OF COURSES CENTRAL TO THIS PROGRAM OF STUDY

YEAR 1	YEAR 2	YEARS 3 & 4
<p>Students should consider taking ANY options:</p> <ul style="list-style-type: none"> <li>PLTW Intro to Engineering Design (IED)*</li> </ul>	<p>Students should take ALL of these options:</p> <ul style="list-style-type: none"> <li>PLTW Principles of Engineering*</li> <li>AP Physics I*</li> </ul>	<p>Students should take ANY one of these options:</p> <ul style="list-style-type: none"> <li>AP Physics C*</li> <li>PLTW Aerospace Engineering*</li> </ul>

### ACTIVITIES & CLUBS

CAREER AWARENESS, EXPLORATION EXPERIENCE & CAREER AND TECHNICAL STUDENT ORGANIZATIONS

- Robotics- FRC
- Robotics- FTC
- Society of Women Engineers

### RELATIVE ELECTIVES TO CONSIDER THROUGHOUT HIGH SCHOOL EXPERIENCE

#### Business:

- Business Law

#### Computer Science:

- AP Computer Science Principles\*

#### LAUNCH:

- Data Science and Intelligence for Careers Strand
  - Math for Data Science
  - Python for Data Science\*
  - Mentorship
- Engineering Foundations Strand
  - English 11/Writing for Research
  - PLTW Engineering Design and Development\*
  - Mentorship

#### Mathematics:

- Functions & Trigonometry
- Statistics\*
- AP Statistics\*
- Data Analysis\*
- Precalculus\*
- AP AB Calculus\*
- AP BC Calculus\*

#### Science:

- Astronomy & Meteorology
- AP Physics II - Algebra-Based\*

### DUAL COLLEGE CREDIT OPPORTUNITIES

- AP Physics 1
- AP Physics C
- AP Computer Science Principles
- AP Statistics
- AP AB Calculus
- AP BC Calculus
- AP Physics II - Algebra-Based
- AP Human Geography
- Statistics & Data Analysis (CAPP)
- Precalculus (CAPP)
- PLTW Aerospace Engineering
- PLTW Engineering Design & Development
- PLTW Intro to Engineering Design
  - PLTW Principles of Engineering
  - Python for Data Science (UWW)

\* **Dual Credit Course**

### WORK-BASED LEARNING OPTIONS

- STEM Seminar and Youth Apprenticeship

COURSES

DUAL COLLEGE CREDIT

WORK-BASED LEARNING

CREDENTIALS

INDUSTRY-RECOGNIZED CREDENTIALS

- IC3 Digital Literacy Certification
- Autodesk Certified User
- Microsoft Office Specialist





# COURSE OFFERINGS

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High School Course Correlation Table

Course Offerings

- Applied Technology and Engineering
- Art (Visual Arts)
- Business
- Computer Science
- English Language Arts
- Family and Consumer Sciences
- Health
- LAUNCH
- Mathematics
- Music
- Physical Education
- Science
- Social Studies
- World Languages
- Non-Department Specific Courses










Courses at a Glance

# COURSE CORRELATION TABLE

## INTERACTIVE TABLE

Click on the Program of Study or Department Header Bar to jump to the corresponding page.

Use the table as a guide to determine how Elmbrook high school courses align with each of the 16 career clusters.

CAREER CLUSTERS	Agriculture, Food, Natural Resources	Architecture & Construction	Arts, A/V Technology & Communications	Business Management & Administration	Education & Training	Finance	Government & Public Administration	Health Science	Hospitality & Tourism	Human Services	Digital Technology	Law, Public Safety, Corrections & Security	Advanced Manufacturing	Marketing	Science, Technology, Engineering & Mathematics	Transportation, Distribution & Logistics
<b>APPLIED TECHNOLOGY &amp; ENGINEERING</b>																
Architecture		X	X												X	
Auto Service Fundamentals A													X			X
Auto Service Fundamentals B 													X			X
Building Construction & Basic Carpentry Theory 1		X											X			
Building Construction & Basic Carpentry Theory 2		X											X			
Computer Aided Design (CAD)		X									X		X		X	X
Digital Imaging I		X	X								X		X	X		
Digital Imaging II		X	X								X		X	X		
Digital Imaging Seminar		X	X								X		X	X		
Introduction to Digital Electronics and Programming													X		X	X
PLTW: Aerospace Engineering 		X									X		X		X	X
PLTW: Civil Engineering and Architecture 		X											X		X	X
PLTW: Computer Integrated Mfg & Automation 		X									X		X		X	X
PLTW: Engineering Design & Development (EDD) 		X									X		X		X	X
PLTW: Introduction to Engineering Design (IED) 		X									X		X		X	X
PLTW: Principles of Engineering (POE) 		X									X		X		X	X
Power Systems: Small Engine & Auto													X		X	
Technology Assistant			X								X					
Transportation/Distribution/Logistics Seminar & YA																X
Video Production			X								X			X		
Wood Design & Production I	X	X											X			
Wood Design & Production II	X	X											X			
Yearbook Publishing Design and Production			X								X			X		
<b>ART (VISUAL ARTS)</b>																
Art Lab		X	X											X		
AP Art & Design 		X	X					X		X				X		
AP Art History 		X	X				X	X							X	
Art Metals I		X	X										X			X
Art Metals II		X	X										X			X
Art Metals III		X	X										X			X
Art Seminar		X	X													
Ceramics & Sculpture I		X	X													
Ceramics & Sculpture II		X	X													

**INTERACTIVE TABLE**

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# COURSE CORRELATION TABLE

CAREER CLUSTERS	Agriculture, Food, Natural Resources	Architecture & Construction	Arts, A/V Technology & Communications	Business Management & Administration	Education & Training	Finance	Government & Public Administration	Health Science	Hospitality & Tourism	Human Services	Digital Technology	Law, Public Safety, Corrections & Security	Advanced Manufacturing	Marketing	Science, Technology, Engineering & Mathematics	Transportation, Distribution & Logistics
	<b>ART (VISUAL ARTS)</b>															
Ceramics & Sculpture III		X	X													
Design Drawing & Color Theory			X								X			X		
Digital Illustration			X								X			X		
Digital Imaging I			X								X		X	X		
Digital Imaging II			X								X		X	X		
Digital Imaging Seminar			X								X		X	X		
Drawing I		X	X										X	X		
Drawing II		X	X										X	X		
Drawing III		X	X										X	X		
Image Editing/Photoshop		X	X								X		X	X		
Page Layout/InDesign		X	X								X			X		
Painting I			X													
Painting II			X													
Painting III			X													
Printmaking Mixed Media I			X										X			
Printmaking Mixed Media II			X										X			
Printmaking Mixed Media III			X										X			
Video Production			X								X					
Yearbook Publishing Design & Production			X								X					
<b>BUSINESS</b>																
Business & Society						X	X									
Business Law			X	X		X	X		X			X		X		
Business Leadership				X			X		X					X		X
Business Management				X		X	X		X							X
Business Strategy (LAUNCH)				X		X	X		X		X			X		X
Business/Finance/Marketing Seminar & Youth App.				X		X			X		X			X		X
College Accounting		X				X			X	X			X	X		
Entrepreneurship				X		X	X		X	X	X	X	X	X	X	X
Financial Management & Investing	X	X	X	X		X				X			X			
Introduction to Accounting		X				X			X					X		
Introduction to Business										X				X		X
Introduction to Marketing						X	X							X		X
Personal Finance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sports & Entertainment Marketing			X	X					X					X		
<b>COMPUTER SCIENCE</b>																
AP Computer Science A			X								X		X		X	X
AP Computer Science Principles								X			X		X		X	X
Cybersecurity											X	X			X	

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	<b>COMPUTER SCIENCE</b>															
Emerging Trends in IT			X								X	X	X	X	X	X
Introduction to Computer Science											X				X	
IT Seminar & Youth Apprenticeship			X								X	X	X	X	X	X
Python for Data Science (LAUNCH) 											X				X	
Student Technology Team			X								X				X	
Unity Game Development			X								X				X	
Web Design			X								X				X	
<b>ENGLISH</b>																
AP English Language & Composition 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP English Literature & Composition 			X				X									
Creative Writing 			X											X		
Drama as Literature			X													
Dystopian & Utopian Literature			X													
English 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
English 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
English 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors English 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors English 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Literature in Film 			X													
Literature: Giants in Time			X													
Notetaking and Study Skills					X											
Oral Interpretation, Acting & Directing			X													
Public Speaking 	X	X	X	X	X		X	X	X	X	X	X	X	X		X
Real Lives: Memoir/Autobiography			X													
Senior Literature Seminar			X													
Speech Communication	X	X	X	X	X		X	X	X	X	X	X	X	X		X
Stagecraft: Introduction to Theater			X													
The Graphic Novel			X													
Writing for College 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Writing for Publication			X	X	X		X							X		
Writing for Research (LAUNCH)																
<b>FAMILY &amp; CONSUMER SCIENCES</b>																
Fashion Analysis			X											X		
Introduction to Elements of Design			X													
Principles of Interior Design		X	X													
<b>HEALTH</b>																
Exercise Science	X				X			X		X					X	
Health Education	X				X			X		X					X	

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	LAUNCH															
Advanced Manufacturing Technologies																
Analytics																
Automation, Robotics and Trends in IT																
Business & Society																
Data Science & Intelligence for Careers																
Engineering Foundations																
Foundations of Body Systems & Disease																
Future Teachers																
Global Business																
Healthcare Solutions																
Law and Public Policy																
Media Solutions																
Medicine & Healthcare																
Skilled Building Trades																
Spanish in Healthcare																
WCTC Business Management Program																
WCTC Marketing Program																
MATHEMATICS																
Algebra I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Algebra II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Calculus AB 	X	X				X		X			X		X		X	
AP Calculus BC 	X	X				X		X			X				X	
AP Statistics 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calculus III 																
Data Analysis 	X	X	X			X		X	X	X	X				X	X
Functions and Trigonometry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geometry																
Honors Algebra II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors Geometry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Math for Data Science											X				X	
Precalculus 	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Honors Precalculus	X	X				X		X			X		X		X	
Statistics 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MUSIC																
Chamber Choir	Music courses and ensembles teach many skills that are valuable to all Programs of Study.															
Chamber Orchestra																
Concert Choir																

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	<b>MUSIC</b>															
Concert Band	Music courses and ensembles teach many skills that are valuable to all Programs of Study.															
Digital Music for Musicians and Non-Musicians																
Exploring Music Theory and Composition																
Symphonic Band																
Symphony Orchestra																
Treble Choir																
Wind Ensemble																
Women's Ensemble																
<b>PHYSICAL EDUCATION</b>																
Advanced Team and Individual Sports																
Lifeguarding					X				X							
Lifetime Sports									X							
Outdoor Pursuits									X							
Personal Fitness and Wellness	X				X			X		X						
PE 09																
Sports Officiating				X								X		X		
Racquet and Team Sports																
Ultimate Strength and Conditioning					X			X								
Variety Sports																
<b>SCIENCE</b>																
Anatomy & Physiology	X							X		X					X	
AP Biology 	X							X		X					X	
AP Chemistry 	X							X			X		X		X	
AP Environmental Science 	X	X											X		X	X
AP Physics C 	X	X						X			X		X		X	X
AP Physics I 	X	X						X			X		X		X	X
AP Physics II: Algebra-Based 	X	X						X			X		X		X	X
Astronomy & Meteorology	X														X	
Biology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chemistry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Culture of Healthcare 	X							X		X					X	
Ecology	X														X	
Geology	X	X													X	
Honors Biology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Honors Chemistry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Marine Biology	X														X	
Medical Terminology 	X							X		X					X	
Organic Chemistry	X							X							X	

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	<b>SCIENCE</b>															
Physics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PLTW Biomedical Innovation 	X							X		X					X	
PLTW Human Body Systems 	X							X		X					X	
PLTW Medical Interventions 	X							X		X					X	
PLTW Principles of Biomedical Science 	X							X		X					X	
<b>SOCIAL STUDIES</b>																
20th Century American History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Abnormal Psychology					X			X		X		X				
AP European History 		X					X		X							
AP Human Geography 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP Macro Economics 	X			X		X	X		X				X	X		X
AP Micro Economics 	X			X		X	X		X				X	X		X
AP Psychology 				X	X		X	X	X	X		X		X		
AP United States History 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP US Government and Politics 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AP World History 	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Crime, Society and the Law							X			X		X				
Educational Inquiry 1: Critical Perspectives on Education 					X					X						
Current Issues	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economics	X			X		X	X	X	X				X	X		X
Human Geography	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Modern Society			X	X	X		X	X	X	X		X		X		
Principles of American Democracy																
Psychology				X	X		X	X	X	X		X		X		
World History	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>WORLD LANGUAGES</b>																
French 1 - French 4	World Languages apply to some aspects of all Programs of Study and may be a requirement for college entrance.															
French 5 																
German 1 - German 4																
German 5 																
Latin 1 - Latin 3																
Latin 4 																
Latin 5 																
Mandarin Chinese 1 - Mandarin Chinese 3																
Mandarin Chinese 4 																
Spanish 1 - Spanish 4																
Spanish 5 																
Spanish 6 																
Spanish in Healthcare																

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	<b>NON-DEPARTMENT SPECIFIC COURSES</b>															
<b>AP CAPSTONE</b>																
AP Seminar 	X	X		X	X	X	X	X		X	X	X			X	X
AP Research 	X	X		X	X	X	X	X		X	X	X			X	
<b>EXPERIENTIAL LEARNING</b>																
Career and Employment Opportunities (CEO)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mentorship	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Project Pursuit	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Youth Apprenticeship	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>LEADERSHIP</b>																
Leadership Principles	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



# COURSE OFFERINGS

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Use the headings below to navigate to each department's course offerings.

- Applied Technology and Engineering
- Art (Visual Arts)
- Business
- Computer Science
- English Language Arts
- Family and Consumer Sciences
- Health
- LAUNCH
- Mathematics
- Music
- Physical Education
- Science
- Social Studies
- World Languages
- Non-Department Specific
  - AP Capstone
  - Experiential Learning
  - Leadership

# APPLIED TECHNOLOGY & ENGINEERING

**Graduation Requirements:** Applied Technology & Engineering courses can apply toward the 1.0 credit Practical/Fine Arts requirement.

## APPLIED TECHNOLOGY & ENGINEERING: Course Strands

**Transportation Strand**

- Power Systems: Small Engine & Auto
- Auto Service Fundamentals A
- Auto Service Fundamentals B
- Capstone:** Start College Now Program Or Transportation, Distribution, Logistics Seminar & Youth Apprenticeship Or Automotive Technology w/LAUNCH (In development for 2024/25)

**STEM Strand**

- PLTW Introduction to Engineering Design
- PLTW Civil Engineering & Architecture
- PLTW Aerospace Engineering
- Computer Aided Design (CAD)
- PLTW Principles of Engineering
- Robotics & Automation
- Intro to Digital Electronics & Programming
- PLTW Computer Integrated Manufacturing & Automation
- Capstone:** PLTW Engineering Design & Development (w/ LAUNCH Engineering Foundations) Or \*ECCP: UW Milwaukee Architecture (Online) Or Emerging Trends in IT (w/ LAUNCH Robotics, Automation & Trends in IT) Or STEM Seminar & Youth Apprenticeship

**AV/Technology & Communications Strand**

- Video Production
- Digital Imaging I
- Digital Imaging II
- Yearbook Production & Design (repeatable)
- Capstone:** Digital Imaging Seminar w/LAUNCH Media Solutions Or \*Dual Enrollment Program Or \*Start College Now Program Or Arts, AV/Technology, & Communications Seminar & Youth Apprenticeship

Note- these courses run in Art and ATE

**Architecture & Construction Strand**

- Building Construction & Carpentry Theory 1
- Building Construction & Carpentry Theory 2 (\*)
- Architecture
- Wood Design & Production 1
- Wood Design & Production 2
- Capstone:** Skill Building Trades w/LAUNCH Or \*ECCP: UW Milwaukee Architecture (Online) Or \*Dual Enrollment Program Or \*Start College Now Program Or Architecture & Construction Seminar & Youth Apprenticeship

## Career and Technical Education Mission Statement

The mission of Elmbrook's Career and Technical Education (CTE) is to prepare students for career and life success in the local and global marketplace by cultivating all learners as thinkers, problem solvers, innovators, collaborators and communicators.

CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry'
- Preparation for high-skill, high-wage, high-demand careers.

### Auto Service Fundamentals A 1002

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

This course introduces students to the fundamentals of automotive technology and the skills necessary to service the modern automobiles. This course serves as the introduction class to the automotives strand and gives a solid foundation in learning the major systems involved in automobiles and learning basic preventative maintenance and light repair tasks. Students completing both Auto Service Fundamentals A and B are eligible to receive transcribed credit for Waukesha County Technical College's "Auto Service Fundamentals" course.

### Auto Service Fundamentals B 1031

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Auto Service Fundamentals A (previously known as Automotive Technology I)						

This course develops students' understanding of automotive technology and the skills necessary to service the modern automobile. This course develops students' understanding in specific automotive systems, specifically, the electrical, battery, charging, starting, cooling and lubrication and wheels and tires. Students will build the skill set necessary to diagnose, test, maintain and repair those systems. Students completing both Auto Service Fundamentals A and B are eligible to receive transcribed credit for Waukesha County Technical College's "Auto Service Fundamentals" course.

## Architecture

1001

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Architecture is defined as the art and science of designing buildings and structures. In this course, students will design a structure relevant to today's modern architecture. Students will gain skills and knowledge on computer drawn plans and create a set of working drawings relevant to their structure. These plans shall include, floor plans, electrical plans, plumbing plans, structural plans, stair and roof plans, elevations and plot plans. Architecture requires strong technical knowledge in the fields of engineering, logistics, geometry, building techniques, functional design and ergonomics. This class is a foundation course for the student who wishes to pursue a degree in architecture and design and allows them to explore the variety of avenues in the architectural field.

## Architecture and Construction Seminar & Youth Apprenticeship

2303C

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Junior/Senior standing  
Likely to graduate at the end of senior year  
Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County. Students may begin their apprenticeship as early as the summer before Junior year.

## Arts/AV/Technology & Communications Seminar & Youth Apprenticeship

2303A

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA**

**Prerequisite(s)** Junior/Senior standing  
Likely to graduate at the end of senior year  
Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

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**Opportunity to earn industry recognized credentials**

## Building Construction & Basic Carpentry Theory 1

1006

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

This course is an introduction to the basic building materials, components, methods, and sequences in residential construction. It is designed to give students basic, entry level exposure and skills in construction and related trades along with an overview of extensive career opportunities available. This hands-on project based course will expose students to the systems involved in residential construction including carpentry, electrical and plumbing.

## Building Construction & Basic Carpentry Theory 2

1008

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Building Construction & Basic Carpentry Theory 1

This advanced construction course will allow students interested in a possible career in the building trades to further their knowledge and skills. Advanced building materials, components, methods, and sequences used in residential and commercial construction are explored. Students will build upon the skills learned in Building Construction & Basic Carpentry Theory 1 and related trades along with an overview of extensive career opportunities available. This course will delve deeper into the mechanicals and finishing required in home construction, including practical experience with the systems involved in residential construction including carpentry, electrical, plumbing and HVAC. Emphasis is placed on safety and the proper use of both hand and power tools. Often, students may work on actual building projects both in the school and community.

**Computer Aided Design (CAD) 1032****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course will study drafting, visualizing and techniques as well as multiview representation of technical drawings. AutoCAD 2D drafting and 3D Modeling inventor software will be used to create technical drawings. Students will be introduced to the engineering design process and careers that relate to the CAD industry.

**Opportunity to earn industry recognized credentials:**  
**Autodesk Certified User**

**Digital Imaging I 1012****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This course introduces students to the fundamentals of digital image creation, manipulation and publishing in a variety of formats. Digital images, whether photographic or design based, are the cornerstone of today's media rich environments. This course focuses on developing an understanding of the interaction of the basic elements of photography and digital/graphic design exploring both raster and vector based images, the basis of all computer generated images today. Students will use a variety of software (Photoshop, Illustrator, InDesign) to create, edit and publish both raster and vector based graphics.

**Digital Imaging II 1007****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging I

This course will build upon the foundations gained in Digital Imaging I. Students, through a personalized learning approach, will gain in depth knowledge and skills in multiple areas of the imaging fields including digital photography, illustration and page layout. Student's skills in the creation and modification of raster and vector based graphics will be refined. Multiple output and publishing solutions will be explored.

**Digital Imaging Seminar 1011****Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Digital Imaging I & II

This semester long course is designed for those students who have successfully completed Digital Imaging I and II and are interested in engaging in advanced study in the areas of digital imaging (web and multimedia), photography, graphic design, printing or related fields. Through a variety of real world applications students will apply the skills and concepts learned in previous imaging courses in the creation of images for, but not limited to, the school newspaper, yearbook, web pages, displays and community groups. The class functions as a business providing design and reproduction services to the school community. Students will also be given the opportunity to explore an independent study, project based activity furthering their knowledge of specific imaging disciplines.

**Opportunity to earn industry recognized credentials:**  
**Adobe Certified Associate**

**Introduction to Digital Electronics and Programming 1041****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This introduction to electronics course is a comprehensive, hands-on learning program that guides students through the fundamental concepts of electronics and coding, and challenges them to assemble, wire and program projects using the Arduino platform. This course provides a foundation for students who are interested in electrical engineering, electronics, circuit design or coding/programming.

**PLTW: Aerospace Engineering (AE) 2169A/2169B****Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Geometry  
Principles of Engineering or Physics

The major focus of this course is to expose students to the world of aeronautics, flight and engineering through the fields of aeronautics, aerospace engineering and related areas of study. Students work in teams utilizing hands-on activities, projects and problems and are exposed to various situations faced by aerospace engineers. In addition, students use 3D design software to help design solutions to proposed problems. Students design intelligent vehicles to learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community. This course may have a transferable college credit option. Visit PLTW.org to learn more.

**WEIGHTED GRADE****PLTW: Civil Engineering & Architecture 1040A/1040B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Improving our world through thoughtful building design and development! Students learn the fundamentals of building design, site design, and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. You can change the world, one project at a time.

This course may have a transferable college credit option. Visit PLTW.org to learn more.

**WEIGHTED GRADE**

## PLTW: Computer Integrated Manufacturing & Automation

2170A/2170B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** PLTW Principles of Engineering Computer Aided Design or PLTW Intro to Engineering Design

PLTW Computer Integrated Manufacturing & Automation is the study of manufacturing planning, integration, and implementation of automation and CNC machining. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a manufacturing system.

This course may have a transferable college credit option. Visit [PLTW.org](http://PLTW.org) to learn more.

**WEIGHTED GRADE**

## PLTW: Engineering Design and Development - Capstone Class

1039A/1039B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Previous completion of one of the PLTW foundation courses

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research, design and fabrication course in which students work in teams to design, develop and fabricate an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently continues to develop knowledge and skills from the foundation PLTW courses as well as mathematics, science, and technology. Since the projects on which students work can vary with student interest, the curriculum focuses on the full engineering process from problem identification through presentation of a complete solution that is modeled by a working prototype. Utilizing an activity-project-problem-based (APPB) environment, students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel of experts in the various aspects of engineering and business. While progressing through the engineering design process, students will utilize community experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of design and process.

This course may have a transferable college credit option. Visit [PLTW.org](http://PLTW.org) to learn more.

**WEIGHTED GRADE**

## PLTW: Intro to Engineering Design

1035A/1035B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** None

This is a foundational level course focused on engineering and engineering design. Students will be introduced to careers in the engineering profession, common approaches to engineering problem solving, and the engineering design process. Course work will be dependent on the use of a 3-D solid modeling program, in order to create original solutions to problems. Throughout the course, various forms of technology are utilized by the students, to create working solutions. The project work gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills as they apply engineering concepts. It allows students to develop strategies to enable and direct their own learning.

This course may have a transferable college credit option. Visit [PLTW.org](http://PLTW.org) to learn more.

**WEIGHTED GRADE**

## PLTW: Principles of Engineering

1037A/1037B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Geometry Introduction to Engineering Design

This course investigates multiple engineering fields and engineering technologies. It looks at how the tools of mathematical and scientific theory are integrated into functioning systems. Throughout the course, various forms of technology are utilized by the students, to create working solutions. This project work gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills as they apply engineering concepts. It also allows students to develop strategies to enable and direct their own learning.

This course may have a transferable college credit option. Visit [PLTW.org](http://PLTW.org) to learn more.

**WEIGHTED GRADE**

## Power Systems: Small Engine & Auto

1014

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** None

Small Engine and Auto is designed to introduce the next generation of small engine consumers and entry-level technicians to the industry. Individuals who take this course will have acquired the entry-level technical knowledge and skills necessary to service and maintain 2-stroke and 4-stroke small engines. Students may repeat this course one time only.

**Robotics & Automation (New 23-24) 2172A/2172B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** None

Using a project-based learning method, Students gain knowledge and skills by working towards goals through the investigation of solutions and engagement in a complex question or problem to solve. Content is designed to meet specific STEM learning objectives through connected learning principles as they design, build, and program a robot to complete challenges. In addition, students will explore Career Clusters in which Robotics and Automation are integral component of various industry fields.

**STEM Seminar & Youth Apprenticeship 2303S****Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Junior/Senior standing  
Likely to graduate at the end of senior year  
Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County. Students may begin their apprenticeship as early as the summer before Junior year.

**Technology Assistant 1015****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Interest in technology and helping others. Teacher recommendation. Prior coursework in location/subject area strongly encouraged.

This program will allow students to work with, learn about and share their knowledge of technology with students and staff. This program will channel student's enthusiasm for technology to build self-esteem, develop character and allow them to gain technical skills while providing a service to students and staff. Students will be assigned to a staff member/lab to assist with the implementation, teaching and upkeep of the school's technology. **Note: This course is PASS/FAIL and will not count in calculating GPA.**

**Transportation, Distribution, Logistics Seminar & Youth Apprenticeship 2303T****Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Junior/Senior standing  
Likely to graduate at the end of senior year  
Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County. Students may begin their apprenticeship as early as the summer before Junior year.

**Wood Design and Production 1 1004****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** None

This introductory level course applies modern manufacturing technology to the efficient processing of one renewable resource, wood. Through project based applications students will learn the proper care and application of industry standard tools and equipment to produce a manufactured product. This course is designed for students interested in developing manufacturing and woodworking skills for a profession or a hobby. Proper procedures in construction are realized by designing and building projects including the proper use of different joinery, gluing, sanding and finishing techniques.

**Opportunity to earn industry recognized credentials:**  
**Woodwork Career Alliance - Sawblade Certificate**

**Wood Design and Production 2 1030****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Wood Design and Production 1

This advanced level course builds on the foundations learned in Woods 1. Modern manufacturing technology methods will be emphasized as the student learns advanced skills in project planning and production, joinery, CNC machining and finishing techniques while producing a personal project. Advanced use of jigs and fixtures will be employed while students may participate in mass production of a consumer good. Through project based applications students will learn the proper care and application of industry standard tools and equipment to produce a manufactured product. This course is designed for students with a sincere interest in woodworking or related field as a possible profession or serious hobby.

**Video Production****1019****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging I

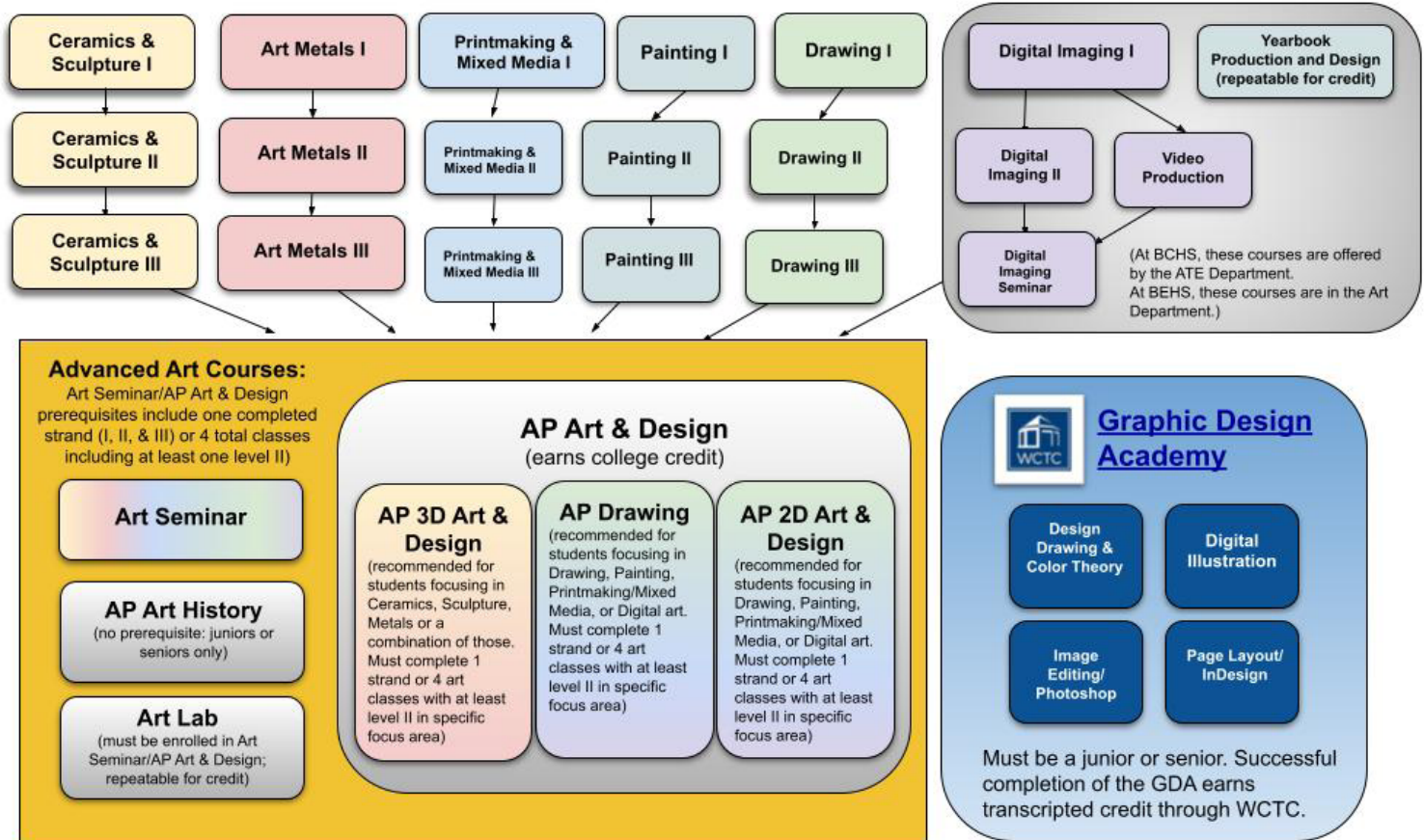
This course provides a unique classroom experience where students learn the fundamentals of digital storytelling and video production through the creation and editing using industry standard hardware and software. Video Production is a hands-on course that empowers the student with the ability to create, integrate and publish video based projects with real life applications. Students will complete a variety of journalistic video projects throughout the course of the class including music videos, animations, documentaries etc.. Special emphasis will be placed upon digital storytelling and publishing to the web.

**Yearbook Publishing Design and Production****1018A Alt/1018B Alt****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Digital Imaging I or Consent of Instructor

The yearbook design and production course will teach the student layout and design, photography, desktop publishing, advertising, and journalism while providing the opportunity to contribute to the production of the school yearbook. Attention is given to the integration of several curricular areas: art, through both design and photography; technology through desktop publishing, photo editing, design and layout software; social studies, through the study of the ethics of journalism; English, through the application of sound journalism and writing, and business, through the study of advertising. The students will make content and coverage decisions necessary to fulfill the functions of a yearbook (history book, record book, picture book, memory book).

# ART (Visual Arts)

Graduation Requirements: 1.0 credit of Practical/Fine Arts



**Art Lab** 1126

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Enrolled in Art Seminar or AP Art & Design during the same school year

This class will enhance the Art Seminar and AP Studio Art course experiences. It will integrate portfolio development, art gallery displays and community art. Students will have their own studio space to develop ideas and artwork.

**AP Art & Design** 1164A/1164B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** At least four art classes including a level II course and/or Art Seminar or Consent of Instructor with Portfolio Approval

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

**WEIGHTED GRADE**



AP Art History 

1160A/1160B

Grade Level 11-12 Credit/Semester 1.0 Repeatable Yes NCAA No

Prerequisite(s) None

The AP Art History course welcomes students into the global art world as active participants, engaging with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. The study of art history invites students to discover the diversity in and connections among forms of artistic expression throughout history and from around the globe. The AP Art History course framework contains clear learning objectives that represent the art historical skills valued by art historians and higher education faculty. The framework limits the required course content to 250 works of art, aligning with college and university faculty expectations of the number and types of works students should know. This finite number of works allows teachers to present artwork in greater depth and invites students to actively engage with the works, constructing understandings of individual works and interconnections of art and art making throughout history. This approach allows students to develop a profound understanding of representative works of art from diverse cultures, including fundamental information that places these works in context and illuminates relationships among them. The course is not designed to encourage or reward students' memorization of isolated facts about works of art, artists, or cultures; rather, it invites them to actively engage with the works to develop enduring understandings of art making and artistic developments throughout history. By providing detailed information about and parameters for what is expected of students, the framework offers teachers freedom and flexibility to tailor instruction to meet the needs and interests of their students and encourages them to include additional works they value within their individual course content. Ultimately, the knowledge and skills students develop in AP Art History can qualify them for college credit and placement into subsequent college coursework in art history.

**WEIGHTED GRADE**

Art Metals I

1106

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) None

This visual art class explores the amazing material of metal. Create numerous sculptural and wearable art pieces including bracelets, rings, pendants, necklaces and /or more. Students will develop design skills and learn basic metalsmithing techniques including cutting, piercing, filing, sanding, and polishing. Advanced skills of soldering and stone setting will also be covered. You will learn the same techniques that professional jewelers use.

**Opportunities for Industry Based Certifications:**

National Institute for Metalworking Skills (NIMS)  
American Welding Society (AWS)

Art Metals II

1112

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) Art Metals I

In this course, students will continue to build on their skills from Art Metals I using cutting, piercing, filing, sanding, polishing, and finishing metal. Advanced techniques of casting, soldering, and advanced forming of metal pieces will be covered. Wearable art, sculptures, and containers will be created.

**Opportunities for Industry Based Certifications:**

National Institute for Metalworking Skills (NIMS)  
American Welding Society (AWS)

Art Metals III

1124

Grade Level 9-12 Credit/Semester 0.5 Repeatable No NCAA No

Prerequisite(s) Art Metals I & II

Students in this course will continue to work and refine the technical skills used with metal. An increasing emphasis will be placed on original design, conceptual development, critical thinking, and craftsmanship, as well as the science behind a variety of metals and processes. Advanced design skills and originality will be emphasized as students will be encouraged to find their own style and area of focus in metal and design a series of pieces around that focus.

**Opportunities for Industry Based Certifications:**

National Institute for Metalworking Skills (NIMS)  
American Welding Society (AWS)

Art Seminar

1101A/1101B

Grade Level 9-12 Credit/Semester 0.5 Repeatable Yes NCAA No

Prerequisite(s) One completed strand in a medium (i.e Ceramics/ Sculpture) or 4 art classes including one Level 2 course

The purpose of this class is to provide students with an opportunity to expand and explore their knowledge of art & design media by creating original works of art from observation and their imagination. They will develop a concept, see it through a variety of processes, and evaluate the success of the final product. Students will also study the work and influences of various artists of the past and present, in addition to creating a conceptualizing their own focus and theme for a series of artwork and portfolio development.

**Ceramics and Sculpture I** 1102

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Ceramics & Sculpture I will explore hand building methods in clay such as pinch, coil and slab construction as well as an introduction to wheel throwing. Students will investigate additive sculpture techniques such as wire figures or found-object assemblages, or subtractive sculpture techniques such as plaster, clay or foam carving. In addition, students will learn to develop various representational and abstract three-dimensional forms. By studying relevant sculptors and/or ceramicists of historical and contemporary times along with their artwork, students will learn to interpret and create meaning in art. Recommended for careers in: art, architecture, engineering, industrial design, product design, package design and many more.

**Ceramics and Sculpture II** 1103

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Ceramics and Sculpture I

This advanced course is for students who are experienced in basic ceramic techniques such as pinch, coil and slab construction, throwing on the potter's wheel, and glaze application, and wish to develop a greater sense of mastery in the medium. Students will have the opportunity to work in a greater format and size, experiment with glazes and manipulate more complex forms on the potter's wheel. Students will be expected to work at a more intensive individual level while creating more imaginative forms in a more challenging environment. Further research into historical and contemporary sculpture will inspire creative work. It is an excellent course for students who want to start their portfolio for 3-D Studio Art Advanced Placement, or, for those students who wish to improve their skills. Recommended for careers in: art, architecture, engineering, industrial design, product design, package design and many more.

**Ceramics and Sculpture III** 1114

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Ceramics and Sculpture I & II

Ceramics and Sculpture III is for the student with an enthusiasm for expanding their knowledge about three-dimensional processes in a personal and professional manner. Ceramics and Sculpture III will encompass more independent access to sculpture tools and techniques. Students will receive a more in-depth experience in additive and subtractive techniques. Students will develop ideas using previous knowledge and create work through the combination of techniques. The elements and principles of art and design will be established for a student to critically analyze and evaluate methods of creating artwork and establishing a series of artworks related to a common theme of their choosing. Students will leave the class with refined skills of ceramics and sculpture processes that will translate to more successful artistic ventures.

**Design Drawing & Color Theory** 1170

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Design Drawing and Color Theory will help the student develop basic freehand drawing skills, while providing a fundamental knowledge of color. Using digital art media and tools, participants will study the concepts of form: 1, 2, and 3-point perspective; proportion; line; value and texture as well as evaluate color characteristics; and examine the colors used in compositions; illustrations; and rendered still life's. In addition, students explore how color is incorporated in drawings as they develop an understanding of color models: including RGB, CMYK, Pantone, Munsell, CIE Lab, and the Web. Design Drawing and Color Theory is one required course to earn transcribed college credit through the Elmbrook Graphic Design Program of Study.

**WEIGHTED GRADE**

**Opportunity to earn industry recognized credentials: Adobe**

**Digital Illustration** 1122

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Drawing I or Digital Imaging I  
If enrolled in Digital Illustration for the Elmbrook Graphic Design Academy, students must be in grades 11-12

This course introduces students to the fundamentals of digital illustration. Students learn to be proficient in Adobe Illustrator to create, edit and publish vector based illustrations. Emphasis will be placed on learning practical skills used in the illustration design field through the exploration of typography design, character design/comic art, packaging design, digital imagery, and image manipulation.

College credit available to 11th-12th grade students enrolled in the Elmbrook Graphic Design Academy.

**WEIGHTED GRADE**

**Digital Imaging I** 1012

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

This course introduces students to the fundamentals of digital image creation, manipulation and publishing in a variety of formats. Digital images, whether photographic or design based, are the cornerstone of today's media rich environments. This course focuses on developing an understanding of the interaction of the basic elements of photography and digital/graphic design exploring both raster and vector based images, the basis of all computer generated images today. Students will use a variety of software (Photoshop, Illustrator, InDesign) to create, edit and publish both raster and vector based graphics.

**Digital Imaging II** 1007

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
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<b>Prerequisite(s)</b>	Digital Imaging I
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This course will build upon the foundations gained in Digital Imaging I. Students, through a personalized learning approach, will gain in depth knowledge and skills in multiple areas of the imaging fields including digital photography, illustration and page layout.

Student's skills in the creation and modification of raster and vector based graphics will be refined. Multiple output and publishing solutions will be explored.

**Digital Imaging Seminar** 1011

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
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<b>Prerequisite(s)</b>	Digital Imaging I & II
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This semester long course is designed for those students who have successfully completed Digital Imaging I and II and are interested in engaging in advanced study in the areas of digital imaging (web and multimedia), photography, graphic design, printing or related fields. Through a variety of real world applications students will apply the skills and concepts learned in previous imaging courses in the creation of images for, but not limited to, the school newspaper, yearbook, web pages, displays and community groups. The class functions as a business providing design and reproduction services to the school community. Students will also be given the opportunity to explore an independent study, project based activity furthering their knowledge of specific imaging disciplines.

**Opportunity to earn industry recognized credentials:**  
**Adobe Certified Associate**

**Drawing I** 1105

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
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<b>Prerequisite(s)</b>	None
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Develop your observation and drawing skills in this wonderful class. This course will focus on the fundamentals of drawing: line, shape, value, perspective, composition, proportion, spatial relationships, volume and texture and you will create amazing masterpieces in the process. Students will analyze how shadows and highlights create form and use perspective to create the illusion of space. The course will enhance students' observational skills and enable them to apply these abilities to their work. Students will become familiar with various ways in which the elements, principles of design and composition improve their creative approach and critical judgment. This course teaches all the skills you will need to continue on in your 2-dimensional high school art career.

**Drawing II** 1111

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
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<b>Prerequisite(s)</b>	Drawing I
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This course further develops the student's concepts acquired in Drawing I by focusing on composition, figurative drawing and the use of color media, such as pastel and colored pencil. Both realism and abstraction are encouraged and advanced drawing skills are applied to creative assignments.

**Drawing III** 1116

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
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<b>Prerequisite(s)</b>	Drawing I Drawing II
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Drawing III is for the student with a passion for expanding their drawing process in a personal and professional manner. Drawing III will encompass more independent access to technical color applications using a variety of 2-dimensional drawing tools. Students will study anatomical figures and receive a more in-depth experience to figure drawing, expanding their previous knowledge of the human form and composition. The elements and principles of art and design will be established for a student to critically analyze and evaluate methods of creating artwork and establishing a series of drawings related to a common theme of their choosing. Students will leave the class with refined skills of drawing that will translate to more successful artistic ventures.

**Graphic Design Academy Interest** 1170GDA

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
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<b>Prerequisite(s)</b>	Drawing I Drawing II
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Students interested in pursuing Elmbrook Graphic Design Academy should enter course number 1170GDA Graphic Design Academy Interest into the "non-credit" area of the Infinite Campus Academic Planner. This will let Elmbrook schedulers know the student plans to participate in the full program. The student should also add all of the following individual courses into their Academic Planner:

- 1122 - Digital Illustration
- 1170 - Design Drawing & Color Theory
- 1172 - Page Layout/InDesign
- 1173 - Image Edition/Photoshop

**Image Editing/Photoshop**  **1173**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Learn to use Adobe Photoshop to create sophisticated graphics for print and the web. Describe, discuss and demonstrate the procedures for producing color files and documents of professional quality. Become acquainted with layers, channels, paths, masks and other techniques that are used to create the highest quality graphic elements for electronic digital documents. Image Editing/Photoshop is one required course to earn transcribed college credit through the Elmbrook Graphic Design Program of Study. **WEIGHTED GRADE**

**Opportunity to earn industry recognized credentials:**  
**Adobe**

**Page Layout/InDesign**  **1172**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Enrollment in Elmbrook Graphic Design Academy

Page Layout/InDesign introduces students to the fundamentals of page layout for publications. Students learn to be proficient in Adobe InDesign to create documents that are typographically correct and constructed according to the graphic design industry standards. Emphasis will be placed on integrating type and images, using tabs, managing layers, applying master pages and style sheets, and creating complex based tables and forms. Page Layout/InDesign is one required course to earn transcribed college credit through the Elmbrook Graphic Design Program of Study. **WEIGHTED GRADE**

**Opportunity to earn industry recognized credentials:**  
**Adobe**

**Painting I** **1107**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Develop your observation and painting skills in this wonderful class. This course will focus on the fundamentals of painting: line, shape, value, composition, proportion, spatial relationships, color and brush strokes and you will create amazing masterpieces in the process. Students will analyze how shadows and highlights create form and use perspective to create the illusion of space. The course will enhance students' observational skills and enable them to apply these abilities to their work. Students will become familiar with various ways in which the elements, principles of design and composition improve their creative approach and critical judgment. This course teaches all the skills you will need to continue on in your 2-dimensional high school art career.

**Painting II** **1108**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Painting I

Expand your artistic skills and continue to paint. Painting II class builds on the skills acquired in Painting I. Students will explore value and color as they learn to create their own strong compositions and how to look at their work with a critical eye. Color theory will help students to learn to mix and produce color variations that will add depth and excitement to their work. Research of art movements and artists will enrich the learning experience.

**Painting III** **1119**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Painting I  
Painting II

Students will refine their painting skills in this advanced level course. Students will explore various artistic styles and materials as they develop their portfolio of work. Students will strengthen their understanding of color theory, value, space and strong compositional elements and apply them to their pieces. Research of art movements and artists will enrich the learning experience. Students are encouraged to think creatively and develop their own personal style through their growth and development. Students are given more personal responsibility for the creation of their artwork with an emphasis on building conceptual and technical skills.

**Printmaking & Mixed Media I** **1109**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Printmaking and Mixed Media I introduces students to printmaking techniques such as monotype, collagraph, relief and screen-printing. Students will explore using a variety of art materials together in an artwork. Projects may incorporate painting, bookmaking, collage, printmaking, drawing, sculpture and found objects.

**Printmaking & Mixed Media II** **1110**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Printmaking & Mixed Media I

Printmaking and Mixed Media II is a more in-depth study of printmaking and art-making experiences. Printmaking is a synthesis of the material process and critical analysis of printmaking and design. The course investigates what it means to work in mixed media and where it is used in society at large. Recommended for careers in: advertising, fashion design, graphic design, package design, textiles, illustration and many more.

**Printmaking & Mixed Media III** 1121**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Printmaking & Mixed Media I  
Printmaking & Mixed Media II

Printmaking and Mixed Media III is for the student with an enthusiasm for expanding their knowledge about the printmaking process in a personal and professional manner. Printmaking and Mixed Media III will encompass more independent access to printmaking tools and mixed media techniques. Students will receive a more in-depth experience in intaglio, relief, monotype, and lithography processes. Students will develop ideas using mixed media techniques and expand on their previous knowledge through the combination of techniques. The elements and principles of art and design will be established for a student to critically analyze and evaluate methods of creating artwork and establishing a series of artworks related to a common theme of their choosing. Students will leave the class with refined skills of printmaking and mixed media processes that will translate to more successful artistic ventures. Recommended for careers in: advertising, fashion design, graphic design, package design, textiles, illustration and many more.

**Video Production** 1019**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Digital Imaging I

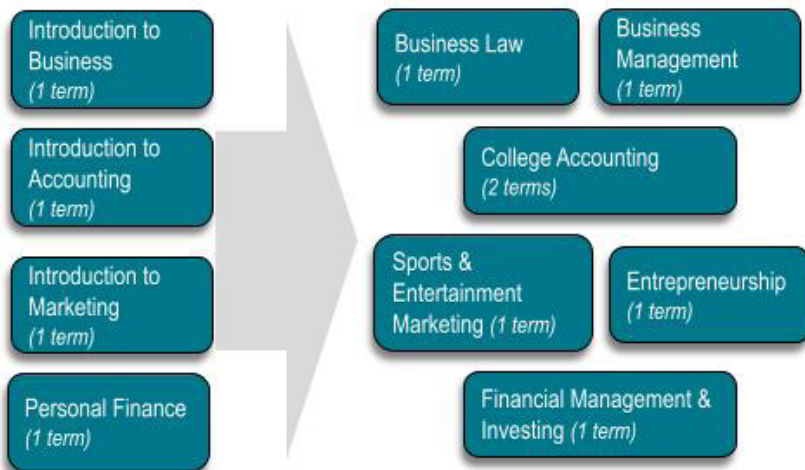
This course provides a unique classroom experience where students learn the fundamentals of digital storytelling and video production through the creation and editing using industry standard hardware and software. Video Production is a hands-on course that empowers the student with the ability to create, integrate and publish video based projects with real life applications. Students will complete a variety of journalistic video projects throughout the course of the class including music videos, animations, documentaries etc. Special emphasis will be placed upon digital storytelling and publishing to the web.

**Yearbook Publishing Design & Production** 1118A Alt/1118B Alt**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** None

The yearbook design and production course will teach the student layout and design, photography, desktop publishing, advertising, and journalism while providing the opportunity to contribute to the production of the school yearbook. Attention is given to the integration of several curricular areas: art, through both design and photography; technology through desktop publishing, photo editing, design and layout software: social studies, through the study of the ethics of journalism: English, through the application of sound journalism and writing, and business, through the study of advertising. The students will make content and coverage decisions necessary to fulfill the functions of a yearbook (history book, record book, picture book, memory book).

**Graduation Requirements:** Personal Finance or Financial Management & Investing, 0.5 credit  
Business courses can apply toward the 1.0 credit Practical/Fine Arts requirement.

## Business: Course Flow Chart



**CAPSTONE:**  
**LAUNCH-**

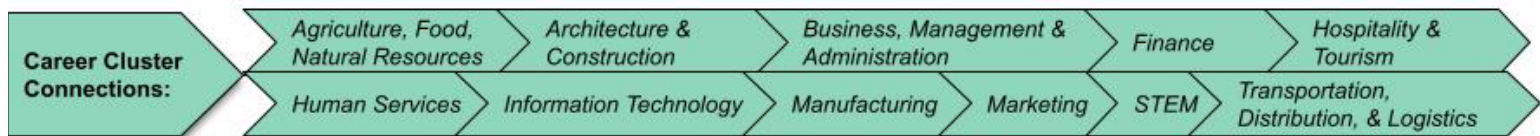
- Business Strategy w/ LAUNCH Analytics Strand
- Business Strategy w/ LAUNCH Global Business Strand
- Business & Society (Bus Admin 200 -Dual Credit w/UW-Milwaukee) w/ LAUNCH Business 2.0 Strand

**BUSINESS LEADERSHIP** (High School Coffee Shop and/or another student-run enterprise)

- Business Leadership

**YOUTH APPRENTICESHIP**

- Business/Finance/Marketing Youth Apprenticeship



## Career and Technical Education Mission Statement

The mission of Elmbrook’s Career and Technical Education (CTE) is to prepare students for career and life success in the local and global marketplace by cultivating all learners as thinkers, problem solvers, innovators, collaborators and communicators.

CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry’
- Preparation for high-skill, high-wage, high-demand careers.

### Business & Society 7823

**Grade Level** 12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes  
**Prerequisite(s)** Successful prior completion of any LAUNCH strand

Students will engage in profession based experiences in a dynamic business like setting. Students will apply business strategy to projects that require collaborative teams to solve problems and communicate results to business and industry partners. LAUNCH 2.0 students will gain skills in ethics, stakeholder management, project management and global/cultural awareness that will prepare them for 21st-century workplaces. This dual credit course focuses on an integrated understanding of sources of competitive/strategic advantage derived from corporate citizenship in the public policy, social, economics, and ecological environments.

**WEIGHTED GRADE**

### Business Law 1201

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No  
**Prerequisite(s)** None

Gain an understanding of how Business Law relates to everyday life and business. Exciting units include ethics, property laws, employment laws, contracts, criminal and civil law, consumer law, and more.

**Business Leadership (Level 1) 1234A/1234B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Must have taken, be currently enrolled in, or be scheduled to take (in the academic year) one of the following:  
 Entrepreneurship, Business Management, Introduction to Marketing, Financial Management & Investing, Sports & Entertainment Marketing, Business Law, or Accounting

Students enrolled in Business Leadership will run the high school coffee shop (or another student-run enterprise). Students enrolled in Business Leadership will be able to choose from four industry specific areas (Marketing, Management, Hospitality, Finance). Within their chosen industry, students will find solutions to business scenarios, complete projects such as business plans or operations research, and apply knowledge from working in a business environment. Business Leadership requires students to be self-motivated and independent.

**Opportunity to earn industry recognized credentials:**  
**Youth Leadership Certificate**

**Business Management 1204**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Students will learn management and leadership skills that span across all functions of a business. Current business topics and events will play a role in learning how the role of a manager continues to evolve. In this class, you will learn how to plan, organize and implement various management strategies and techniques to be successful in business. Technology will be used throughout the course to adequately prepare students for careers in the business world.

**Opportunity to earn industry recognized credentials:**  
**Youth Leadership Certificate**

**Business Strategy  7802**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

*This course is only available through the LAUNCH Analytics or Global Business Strands.*

Students will engage in profession based experiences in a dynamic business like setting. Students will apply business strategy to projects that require collaborative teams to solve problems and communicate results to business and industry partners. Business Strategy students will gain skills in innovation, entrepreneurship & sales, project management, teamwork and data analysis that will prepare them for 21st century workplaces. This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

**WEIGHTED GRADE**  
**Opportunity to earn industry recognized credentials:**  
**Microsoft Office Specialist**

**Business/Finance/Marketing Seminar and Youth Apprenticeship 2303B**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Junior/Senior standing  
 Likely to graduate at the end of senior year  
 Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
 Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County. Students may begin their apprenticeship as early as the summer before Junior year.

**Opportunity to earn industry recognized credentials**

**College Accounting 1230A/1230B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

College Accounting is a course designed for students to develop an understanding of basic accounting concepts and account for the transactions of a small business. Students will learn to work through the entire accounting cycle.

**Opportunity to earn industry recognized credentials:**  
**QuickBooks Certified User**

**Entrepreneurship 1203**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

If you are one of the seventy percent of all high school students that say they want to start their own business, this is the class for you! Develop the skills needed to effectively organize, develop, create, and manage your own business. You will apply your marketing and entrepreneurial skills as you go step-by-step through the entire process of developing a written business plan for the business of your choice. Take a risk and enroll in this class.

**Financial Management & Investing**  **1211**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

A study of the major financial decisions encountered by individuals. Topics include: budgeting, use of credit, automobile and consumer durables, insurance, the housing decision, taxes, retirement planning, estate transfer and investments. Each subject is analyzed within the context of a comprehensive framework of personal financial planning. This course can be taken for dual credit with UW-Oshkosh as a general business elective for Junior and Senior students only. This course may be taken with or without CAPP credit.

This course meets the graduation requirement for Financial Literacy required for all students.

**WEIGHTED GRADE**

**Introduction to Accounting** **1205**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

This is an important college preparatory course for students planning to major in any area of business. Accounting is the key to opening the door to the business world and that is why accounting is often called the “language of business.” In addition, accounting is essential in many government occupations as well as being useful in comprehending one’s personal finances. Understanding how accounting data is accumulated through the double-entry procedure and how to use such data are important outcomes of the course. Accounting careers and becoming a CPA will also be discussed.

**Opportunity to earn industry recognized credentials:**  
**QuickBooks Certified User**

**Introduction to Business** **1206**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Students will learn a variety of business topics so that they have an understanding of entrepreneurship, marketing, management, ethics, international business, basic economics, business law, business finance, and more. Technology will be used throughout the course to adequately prepare students for careers in the business world.

**Introduction to Marketing** **1212**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Students in Introduction to Marketing will gain a basic understanding of what marketing is, as well as selling, pricing, advertising and public relations. Students will learn these concepts through a variety of high-energy methods such as projects, videos, activities, and traditional classroom instruction. Introduction to Marketing gives students the unique ability to exercise their teamwork, creativity and business skills.

**Personal Finance** **1209**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Do you plan to live on your own? Will you apply for a credit card or a car loan? Will you use a savings and checking account? Financial literacy among teens has been recognized as a necessity. Become financially literate by creating a budget, studying long and short term savings options, using credit wisely, exploring housing options, making wise automobile choices, buying insurance, and filing your personal income taxes. This is recommended as a MUST take course. This course meets the graduation requirement for Financial Literacy required for all students.

**Sports & Entertainment Marketing** **1210**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

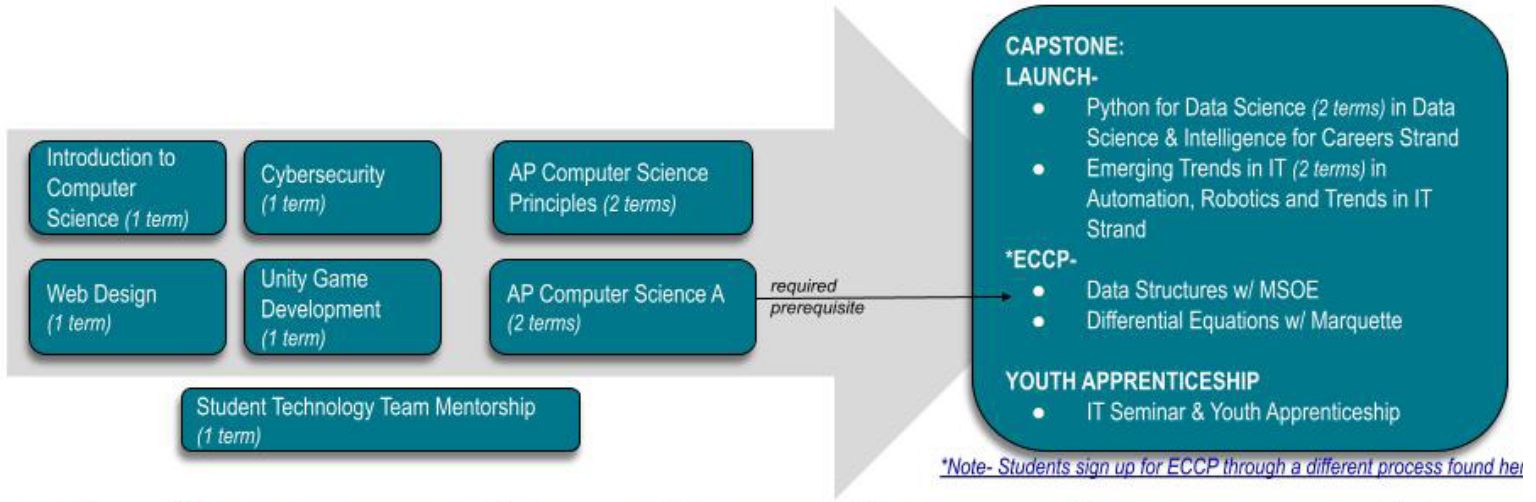
**Prerequisite(s)** None

This hands on course allows students the opportunity to apply the principles of marketing through the Sports & Entertainment Industry. Students will create a marketing plan including ticket pricing & promotions, merchandising, product design, event marketing, corporate sponsorships, advertising, and more. Career opportunities as they relate to the Sports & Entertainment Industry will be discussed. Enrichment activities for this course include a field trip to a professional sports facility such as American Family Field or Lambeau Field.



# COMPUTER SCIENCE

## Computer Science: Course Flow Chart



### Career and Technical Education Mission Statement

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CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry’
- Preparation for high-skill, high-wage, high-demand careers.

#### AP Computer Science A 1260A/1260B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Algebra II (concurrent) or consent of instructor

In this course, students will learn to write computer programs in the JAVA programming language. The course will provide students with a conceptual background in computing and computer science. Major emphasis will be placed on sequential processing, algorithm design, various testing methods, logical reasoning and problem solving techniques. The course follows the syllabus recommended by the College Board to qualify a student for the Advanced Placement Computer Science A examination.

**WEIGHTED GRADE**

**Opportunity to earn industry recognized credentials:**  
*IT Specialist*

#### AP Computer Science Principles 1261

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

The Advanced Placement Computer Science Principles course provides students with the opportunity to develop computational thinking skills, an understanding of the real-world impact of computing, and programming literacy. The course exposes students to the breadth and relevance of computer science across many fields of study that incorporate computer science knowledge. A strong focus on creativity as it applies to the creation of computational artifacts allows a broader range of students to discover where computer science could fit in their lives, and it prepares more students for success in computer science and other related STEM fields.

**WEIGHTED GRADE**

**Opportunity to earn industry recognized credentials:**  
*IC3 Digital Literacy Certification*  
*IT Specialist*

**Cybersecurity** **1244**

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

Cyber crimes against individuals, companies, and governments cost the United States over 6 billion dollars per year and are rising. Demand for cybersecurity professionals is at an all-time high. This course provides hands on experience to explore current cybersecurity topics such as: security principles, technologies and systems, procedures used to defend networks, and data. Knowledge, skills, and best practices for understanding cybercrime are essential for all future careers

**Opportunity to earn industry recognized credentials:**  
**IT Specialist - Cybersecurity**

**Emerging Trends in IT** **1264A/1264B**

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

This course provides students the opportunity to choose from multiple current trends in IT to build their own unique course of study. Computer programming concepts, problem solving techniques and communication skills will be the foundation of every student's experience. Online learning tools and mentors will support students learning throughout the course. Guided by their own interests, students will have multiple opportunities to earn industry recognized certifications for their achievements.

**Opportunity to earn industry recognized credentials**

**Introduction to Computer Science** **1246**

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

This course is an excellent beginning to any series of computer science courses. In this course, students will learn the foundations of computer programming using a text based computer programming language. Topics such as data storage, decision making, iteration(looping) and procedural programming will be explored. Skills learned through this course are directly transferable to any of the other high school computer science offerings and provide an excellent preparation for either AP computer science course.

**Opportunity to earn industry recognized credentials:**  
**IC3 Digital Literacy Certification**  
**IT Specialist**

**IT Seminar & Youth Apprenticeship** **2303IT**

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

Junior/Senior standing  
 Likely to graduate at the end of senior year  
 Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
 Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County. Students may begin their apprenticeship as early as the summer before Junior year.

**Opportunity to earn industry recognized credentials:**  
**IT Specialist**  
**Comp TIA Security+**

**Python for Data Science**  **7829**

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	1.0	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

*This course is only available through the LAUNCH Data Science & Intelligence for Careers Strand.*

This course introduces core features of the Python programming language, while demonstrating and utilizing fundamental concepts in computer science. It provides an in-depth discussion of data representation strategies, showing how data structures are implemented in Python along with demonstrating tools for data science and software engineering. While working on data analysis problems and data manipulation tasks, students will employ various programming paradigms, including functional programming, object-oriented programming, and data stream processing. Special attention is paid to the standard Python library and packages for analytics and modeling (Pandas, Numpy, Matplotlib, etc.).

This course may be taken with or without dual credit with UW-Whitewater (COMP SCI 170).

**WEIGHTED GRADE**  
**Opportunity to earn industry recognized credentials:**  
**IT Specialist**

**Student Technology Team** **1243A/1243B****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No**Prerequisite(s)** Interest in technology, Interest in supporting others

This program allows students to work closely with the district technology department and provide technology support for their fellow students and staff within the high schools. As a member of the technology team, students will learn how to repair Chromebooks, troubleshoot basic classroom technology needs, develop customer service skills and build on their individual technology skills. Technology teams are based out of each high school library and work directly with the library assistants.

**Note: This course is PASS/FAIL and will not count in calculating GPA.**

**Unity Game Development** **1248****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Interest in technology, Interest in supporting others

Have you ever wondered how to create your own 3D games? In this course you will learn the fundamentals of game design and the technical skills required to create your own exciting games! Topics explored: game design and theory, player control, gameplay mechanics, sound and visual effects, scene management, and object oriented computer programming principles. We will also explore computer science careers and provide the opportunity for earning an Industry recognized certification.

**Opportunity to earn industry recognized credentials:**

**Unity Certified User - Programmer**

**Unity Certified User - Artist**

**Unity Certified User - VR Developer**

**Web Design** **1240****Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No**Prerequisite(s)** Interest in technology, Interest in supporting others

This course teaches the foundations of Web Design. Students will create multiple websites using front end languages and frameworks including HTML, CSS, and JavaScript. "Website builder" software applications will be explored. Skills learned through this course are directly transferable to any of the other high school computer science offerings and provide an excellent preparation to be successful in either AP computer science course.

**Opportunity to earn industry recognized credentials:**

**App Development with Swift Certification - Level 1**

**Graduation Requirements:** 4.0 credits including English 9 or Honors English 9 (1 credit), English 10 or Honors English 10 (1 credit), English 11 or AP Language & Composition (1 credit), 2 English Electives (0.5 credit each)

## AP English Language and Composition

1361A/1361B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 10

This course will cultivate the reading and writing skills students need for college success while preparing them for the AP Language and Composition test. The course challenges students to become curious, critical readers of diverse texts, and flexible, reflective writers addressing diverse audiences and purposes. Through analysis of nonfiction and fiction genres and the composition of research-based essays, this course will deepen and expand students' understanding of how written language functions rhetorically. This course is recommended for junior and senior students.

**WEIGHTED GRADE**

## AP English Literature and Composition

1360A/1360B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 10  
English 11

**Strongly Recommended** AP English Language and Composition

In addition to the study of challenging literature, composition is an integral part of this rigorous, college-level course. Short-term writing goals include understanding the skills and strategies necessary to score well on the AP test. Long-term goals including enabling students to learn at a rate commensurate with their ability; to deal with material that intellectually mature students find engaging; to refine reading and writing skills important for success; not only in college but also in the professional world; to cultivate habits of reading, writing, and thinking that characterized life-long learning and enjoyment.

**WEIGHTED GRADE**

## Creative Writing

1315

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
CAPP Credit Prerequisite: Writing for College

In Creative Writing, students learn how to communicate personal experience and observation through various genres, possibly including memoirs, short stories, children's stories, and poetry. Within each genre, students will evaluate both their own writing and the writing of their classmates. Grammar, mechanics, and revisions are stressed for clear, concise, effective writing. This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

**WEIGHTED GRADE**

## Drama as Literature

1316

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

Drama as Literature is a study of dramatic literature from the early Greek and Roman inventors to the recent European and American dramatists. Possible readings include Antigone, Medea, Everyman, and Othello; additionally, modern plays by Tennessee Williams, Arthur Miller, Henrik Ibsen, Anton Chekhov, and an American musical may be explored. Written assignments delve into specific plays regarding characterization, specific dialogue, author's theme or purpose, and historical relevance. Students will be asked to act in class.

## Dystopian and Utopian Literature

1362

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

Mankind has always sought after ways to organize itself into mutually beneficial groups. Some brave souls have proposed visions for perfectly organized societies. More recently, writers have taken a somewhat darker view, and portrayed societies that are failed utopias, or just altogether dysfunctional. Studying these works can teach us much about what we value in a society and in each other. This course will include the exploration of essays, poems, short stories, non-fiction texts, the novel as well as music and art. Students will be involved in active, hands-on learning that will be aimed at analyzing the role of individuals, groups, and rules in society. By immersing students in numerous different written genres, students will be able to analyze and synthesize the concepts necessary for them to ultimately create a much deeper understanding of their role as a citizen and member of society.

## English 9

1302A/1302B

**Grade Level** 9 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

In English 9, listening, speaking, and writing skills are stressed, including vocabulary development, and grammar skills. Literature is studied either by genre or theme to include the novel, short story, drama, and nonfiction. Author studies may include Shakespeare, Harper Lee, and a variety of contemporary works.

**Honors English 9** **1303A/1303B**

**Grade Level** 9 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Teacher Recommendation

English 9 Honors is a two-term course offered to grade 9. It is designed to include the study of literature, grammar, vocabulary, and writing. English 9 Honors classes spend more time on abstract concepts and literary analyses and considerably less time on basic comprehension than English 9 regular class. A progressively rigorous approach to grammar, vocabulary, and speaking & listening skills are embedded into each of the units. Selections could include novels (Black Boy, All Quiet on the Western Front, To Kill a Mockingbird and A Tale of Two Cities), short stories, poetry, drama (Romeo and Juliet), and a number of non-fiction texts.

**English 10** **1330A/1330B**

**Grade Level** 10 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9 or Honors English 9

Students will have the opportunity to read a variety of fiction and nonfiction texts and will be encouraged to connect their reading to themselves, other content discipline areas, other fiction and nonfiction texts, and ultimately to their larger global community. In addition, students will learn a variety of different essay modes including argumentative, persuasive, analytical, reader response, narrative, expository, and research writing.

**Honors English 10** **1331A/1331B**

**Grade Level** 10 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9 or Honors English 9

Honors students will participate in more in-depth study of rhetorical analysis and argumentation. They will be expected to look at all texts with a critical lens focusing on an author's choice of language to determine the effectiveness, relevance, and reasoning of the argument. Honors students will concentrate on using their in-depth study of rhetorical analysis to produce well-developed written and verbal arguments, and students will move through the curriculum at a more rigorous pace while focusing on more complex text and writing more in-depth critical analysis of them.

**English 11** **1333A/1333B**

**Grade Level** 11 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

In this course, students will read, respond to, and reflect upon rigorous literature and nonfiction texts as they explore various facets of American society, including the concept of the American Dream, and issues surrounding our understandings of freedom and democracy. Students will also read literature framing both past and present thinking regarding our technological future. Students will engage in various types of composition including literary analysis, expository writings, and a research project.


**Literature: Giants in Time** **1363**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10

If someone called you a Delilah or a Doubting Thomas, would you understand the reference? Do you know what is implied when someone mentions a “face that launched a thousand ships”? Is being compared to Zeus a compliment or an insult?

This course examines some of the major allusions in literature that every high school senior should be able to access and understand. The allusions mainly come from three sources: classical mythology, the Bible, and Shakespeare, although other sources (history and art) may be examined. The literature and events studied in this class will broaden your knowledge of classic and popular culture in a way that will aid your future reading, enhance your experience of storytelling in other media, and will generally help you come across as a more intelligent person in your interpersonal encounters in life.

**Literature in Film**  **1365**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
CAPP Credit Prerequisite: Writing for College

Students gain appreciation and understanding of literature through examining and analyzing film. Literature in Film is designed to fuse the study of literary texts and film techniques. The course will help students develop analytical skills; it will also provide creative outlets for students to express their interpretations and insights. As an integral part of the course, students complete argumentative, analytical, comparative, and creative writings. This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

**WEIGHTED GRADE**

**Notetaking and Study Skills** **1208**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Want to study more effectively? Want to learn how to personalize your learning? Note Taking and Study Skills will help you take effective notes in all your classes as well as prepare you for college. Study skills such as time management, reading comprehension, and test taking strategies will help you to succeed in all courses. This class will help you now and prepare you for the future!

*Note: This course does not count toward English credits required for graduation.*

**Oral Interpretation, Acting & Directing** 1324

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** English 10

Oral Interpretation, Acting, and Directing is designed to enable the students to portray ideas and feelings through the use of the voice, body, and language and to understand some of the mechanics of play production, as well as to produce plays in class. Activities include mimes, improvisation, comedy sports, monologues, theater critiques, scene work, and field trip to a professional theater (optional).

\*This is not a literature elective.

**Public Speaking**  1325

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Public Speaking students will gain experience with the principles and application of effective communication for diverse audiences in a variety of settings in preparation for post-secondary education and the workplace. Topics may include, but are not limited to, the following: informational, persuasive, demonstrative and impromptu speeches, group dynamics, podcasting, presentation technology, job interviews, and interpersonal communication skills.

This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

**WEIGHTED GRADE**

**Real Lives: Memoir/Autobiography** 1336

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Students in this course will learn to identify personal and author claims of truth in autobiographies, biographies, and memoirs and evaluate the merits of the classic and contemporary stories of the lives of the famous and not so famous. Students will come to appreciate the impact of life stories on the individual reader and the role they play in shaping our society. Students will also examine how technology has changed the ways we chronicle our lives. As an integral part of the course, students complete argumentative, analytical, comparative, and creative writings.

**Senior Literature Seminar** 1367

**Grade Level** 12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9  
English 10  
English 11 or AP Literature & Composition or AP Language and Composition

Designed exclusively for 12th grade students looking to exercise more control over the literature they read in class, Senior Literature Seminar is built around the popular model of literature circles and book clubs. Select, read, discuss, analyze and present the books you want to read while you work collaboratively with other members of the class. Students will maintain a portfolio that documents reflections, thoughts and applications of literary analysis, character studies and examination of plot structure. As an integral part of the course, students complete argumentative, analytical, comparative, and creative writings.

**Speech Communication** 1332

**Grade Level** 9-10 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course offers students the tools necessary to communicate effectively in their high school coursework and in their daily lives. Although the development of speaking and listening skills is the main thrust of the course, students will be asked to exhibit communication skills in a variety of ways throughout the term. Skills targeted may include but are not limited to interpersonal communication strategies, effective listening, small group dynamics, informative speaking, persuasive speaking, and appropriate use of presentation technology.

**Stagecraft: Introduction to Theater** 1327

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Stagecraft emphasizes learning about and executing the technical aspects of the theater. The course seeks to develop the student's understanding of established standards in the technical areas of play production. Using hands-on learning activities, students will design a set: learn scenic painting techniques, sound and lighting, and design costume, plots and properties.

**\*Not H.S. Diploma approved as an English course. Students earn Fine Arts credit for this course.**

**The Graphic Novel** 1364

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Students will understand and appreciate the graphic novel as both a rich source of literature and a cutting-edge graphic art form that reflects and drives the modern human condition. Students will investigate the convergence of literacy and creativity as they explore the social development and personal identity of characters.

**Writing for College**  1326

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Writing for college, primarily for the college-bound student, is designed to polish the skills necessary for written communication, to develop a proficiency in analyzing and organizing ideas and data, to help students achieve a sense of tone and style, improve sentence and paragraph structure, to build vocabulary, and develop skills to research and document sources. A research paper is a course requirement.

This course may be taken with or without dual credit with UW-Oshkosh (CAPP).

Dual credit with UW-Oshkosh (CAPP) for Writing for College is a prerequisite for students pursuing dual credit with UW-Oshkosh (CAPP) for Literature in Film and/or Creative Writing. While exceptions can be made through an approval process facilitated by the course instructor and UW-Oshkosh, completing this prerequisite is encouraged.

**WEIGHTED GRADE**

**Writing for Publication** **1319**

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Students learn to write for newspapers and news magazines. There are extensive writing assignments in each of three major areas: news, feature and opinion. Sports and Photojournalism units may also be incorporated, if time allows. Each of these areas emphasizes style for journalists, interviewing techniques, investigative methods, critical thinking and evaluation of information, ethics, and law of libel. Students will learn to write both objectively and subjectively and make decisions on when each is appropriate. Some basics in newspaper design are taught; however, the course is primarily a writing workshop. Students have an opportunity to work on the school newspaper; however, the school paper is considered a separate co-curricular activity. Active participation is expected during the class discussion.

**\*This course can fulfill writing requirement.**

**Writing for Research** **7801A/7801B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** English 9/Honors English 9  
English 10/Honors English 10  
English 11

*This course is only available through the LAUNCH Automation, Robotics and Trends in IT, Engineering Foundations, Global Business and Media Solutions strands, as the English component for students who have already completed English 11 as well as for students in the Law and Public Policy strand who have already taken A.P. English Language and Composition.*

The course is intended to provide students in applicable LAUNCH strands with the opportunity to learn about and develop the kinds of research and communication skills that are essential in professional settings. They will learn how to conduct efficient and effective research, how to use research to answer real world questions, and how to present that information to different types of audiences and using different presentation modes.

# FAMILY & CONSUMER SCIENCES

Course Offerings

**Graduation Requirements:** Family & Consumer Sciences courses can apply toward the 1.0 credit Practical/Fine Arts requirement.

## Fashion Analysis 1503

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

**Strongly Recommended** Introduction to Elements of Design

Fashion, a multi-billion dollar industry, offers a wide range of career paths for you to explore. While exploring, you will develop an appreciation for how our economy and world events impact the garment industry and current fashions. Through creative projects, you will:

- Evaluate garments using the elements of design (line, color, texture and shape)
  - Demonstrate how body type and face shape can be enhanced through garment selection
  - Examine how you can project personality through clothing
  - Evaluate (investigate) the relationship between the elements, construction and price
  - See how the history of fashion has influenced today's styles
- Explore career paths through professional speakers and our Michigan Avenue Trip in Chicago!

## Introduction to Elements of Design 1502

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

You have a lifetime of spending ahead of you, so why not back your purchases with some useful knowledge. Try to imagine all the money you will spend on clothing and home goods for you and your future family. Our goal is to empower you with the understanding on how line, color, texture and shape play specific roles in meeting your needs. We center our focus on fashion and personal living space. You will also create a professional portfolio to practice the skills related to presenting your work. This hands-on course is a suggested course for classes in the Family and Consumer Science department. It will give you a strong foundation for Fashion Analysis or Principles of Interior Design.

## Principles of Interior Design 1504

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** 11th-12th grade standing or Introduction to Elements of Design

This course is an introduction to the world of interior design. It is an opportunity to explore profitable career paths for the creative person in a growing industry. You will examine the needs and demands of living space for people of all ages, health conditions, preferences and to use the elements and principles of design to meet your client's needs. Our capstone project provides students the opportunity to design a floor plan for a client and to create a presentation board to demonstrate what their new home could look like. You select the furniture, arrange the items, create a color scheme that includes walls, window treatments, flooring and all items. This hands on course applies the elements and principles of design.



Graduation Requirements: Health Education, 0.5 credit

## Exercise Science

2003

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** Biology  
Physical Education 9

This is an elective course designed for students considering careers in physical or occupational therapy, sports medicine, nursing, athletic training, coaching, physical education, recreation, recreational therapy, and corporate fitness. The course will include in-classroom lectures as well laboratories dedicated to applying the practical skills and research the effects of exercise and physical activity on human performance. At the conclusion of this course, students will know the major bones of the skeletal system, the structure and function of major muscles, overall nutritional and metabolic impact of exercise and training, and the effects of exercise on the nervous and cardiorespiratory systems.

## Health Education

1701

**Grade Level** 9-10 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Health Education is required for graduation. Students will be engaged in the following units of study: Nutrition, Mental Illness and Suicide Prevention, Wellness and Stress Management, Teaching Tolerance-Bullying and Cyberbullying, Alcohol and Other Drugs, Emergency Situations and Human Growth and Development. Students will demonstrate knowledge and skills through presentations, skits, projects, and student generated assessments. All components of the Human Growth and Development curriculum are the School Board approved curriculum.

Imagine. Create. Engage.

# LAUNCH

## Career and Technical Education Mission Statement

The mission of Elmbrook's Career and Technical Education (CTE) is to prepare students for career and life success in the local and global marketplace by cultivating all learners as thinkers, problem solvers, innovators, collaborators and communicators.

CTE gives purpose to learning by providing:

- An emphasis on real-world skills and academic knowledge through a career focus;
- Relevant learning through hands-on, project-based, and experiential learning opportunities;
- Authentic connections with business and industry'
- Preparation for high-skill, high-wage, high-demand careers.

LAUNCH is a junior/senior program that connects a student's academic knowledge to real world problems and projects through profession-based experiences in a dynamic, business-like setting. Courses meet daily and may occur off-campus. Students apply their learning through projects supported by area business partners that require collaborative teams to solve problems, communicate with stakeholders, and implement solutions. LAUNCH-specific course descriptions are on the following pages. Additional information may be found at [launch.yourcapsnetwork.org](http://launch.yourcapsnetwork.org).

### WHY LAUNCH?

- Exposure to career and college opportunities that will impact your life
- Connect with professionals and with other highly motivated students
- REAL challenges from business and industry partners in a project-based environment
- Professional atmosphere, great facilities, and excellent community involvement
- Support from experts, mentors, teachers, and people working in relevant fields
- Access to Industry Certifications
- Possible Internship Offerings

### PROGRAM BASICS:

- All LAUNCH strands are 1 block for the entire school year, unless otherwise noted
- Students will travel between Brookfield Central, Brookfield East, Wauwatosa East, Wauwatosa West, and our off site location in the Concurrency building in Bishops Woods Office Park
- Families will need to provide transportation for their student(s), with the exception of Brookfield East and Brookfield Central students in Elmbrook-based strands. Communication will be sent to Brookfield East and Brookfield Central students in June 2023 regarding their transportation options.

### DISTRICT PARTNERSHIP:

- Elmbrook School District and Wauwatosa School District work cooperatively to offer opportunities for students. Through WI DPI Part Time Open Enrollment, students can access the other district's programming.
- Transportation is not provided between districts.

### SCHEDULING INSTRUCTIONS:

Enter the word "LAUNCH" in the Non-Credit area of the Infinite Campus Academic Planner. Students should select a strand from the drop-down menu, making sure they select the appropriate grade level for their 2023-24 academic year. This will automatically add the necessary courses for your strand choice into the planner. The courses will be locked, but if students want to remove their selection or make a different strand selection, they can scroll down to the Non-Credit category and click on the X to remove the strand in its entirety. Additional instructions can be found [HERE](#).



**Advanced Manufacturing Technologies** **7800AMT**

**Grade Level** 11-12 **Credits** 3 **Location** Wauwatosa West  
**Prerequisite(s)** None

Learn how things work, get hands-on experience, make and create things while using teamwork, digital technology and robotics & automation. Ideal for students who desire a career in advanced manufacturing and enjoy inventing or improving products using the design process.

Course Name	Credit Type	Credits
Future Makers Capstone	ATE	1
AP Computer Science Principles	Computer Science	1
Mentorship	Experiential Learning	1

**Analytics** **7800BA**

**Grade Level** 11-12 **Credits** 3 **Location** Concurrency  
**Prerequisite(s)** Algebra II  
**Strongly Recommended** Functions and Trigonometry

Ideal for students who like presenting, DECA, teamwork, data analytics, mathematics, sales/marketing, entrepreneurship, making business connections and developing a product or service

Course Name	Credit Type	Credits
AP Statistics	Mathematics	1
Business Strategy	Business	1
Mentorship	Experiential Learning	1

**AUTOMATION, ROBOTICS & TRENDS IN IT**

For students who like using digital technology, robotics & automation, problem-solving, working as part of a team, and fixing things and want to learn about components of the world of IT, application of current technologies (automation & robotics, and computer programming).

**Automation, Robotics & Trends in IT - Grade 11** **7800IT-11**

**Grade Level** 11 **Credits** 3 **Location** Brookfield Central  
**Prerequisite(s)** None

Course Name	Credit Type	Credits
English 11	English	1
Emerging Trends in IT	Computer Science	1
Mentorship	Experiential Learning	1

**Automation, Robotics & Trends in IT - Grade 12** **7800IT-12**

**Grade Level** 12 **Credits** 3 **Location** Brookfield Central  
**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
Emerging Trends in IT	Computer Science	1
Mentorship	Experiential Learning	1

**Data Science & Intelligence for Careers** **7800DS**

**Grade Level** 11-12 **Credits** 3 **Location** Concurrency  
**Prerequisite(s)** Honors Precalculus or Precalculus & Trigonometry

Students who like math and applications to authentic data driven experiences will enjoy this strand that provides an opportunity to learn how to code in Python and transfer these skills to essential elements of statistics, calculus, and linear algebra.

Course Name	Credit Type	Credits
Math for Data Science	Mathematics	1
Python for Data Science	Elective	1
Mentorship	Experiential Learning	1

**ENGINEERING FOUNDATIONS**

A great strand for students to consider if they like engineering, design, creativity, science, BEAST Robotics, mathematics, problem-solving, and making/breaking things.

**Engineering Foundations - Grade 11** **7800EF-11**

**Grade Level** 11 **Credits** 3 **Location** Brookfield Central  
**Prerequisite(s)** None

Course Name	Credit Type	Credits
English 11	English	1
PLTW Engineering Design and Development	ATE	1
Mentorship	Experiential Learning	1

**Engineering Foundations - Grade 12** **7800EF-12**

**Grade Level** 12 **Credits** 3 **Location** Brookfield Central  
**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
PLTW Engineering Design and Development	ATE	1
Mentorship	Experiential Learning	1

**Engineering Foundations - Year 2** **7800EFY2**

**Grade Level** 12 **Credits** 3 **Location** Brookfield Central  
**Prerequisite(s)** LAUNCH Engineering Foundations

Course Name	Credit Type	Credits
Writing for Research	English	1
Project Pursuit - Advanced Engineering	ATE	1
Mentorship	Experiential Learning	1

**Foundations of Body Systems and Disease** **7800FBS**

<b>Grade Level</b>	11-12	<b>Credits</b>	3	<b>Location</b>	Wauwatosa West
<b>Prerequisite(s)</b>	None				

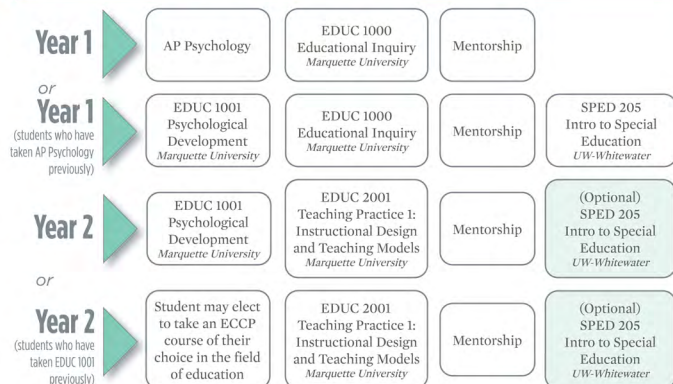
Ideal for students who like studying body systems, helping others, and applying research to solve problems, or would like to explore a career in healthcare, conduct research, and using a case study approach to solve problems

Course Name	Credit Type	Credits
Anatomy and Physiology Health and Disease	Science	1
Mentorship	Experiential Learning	1

**FUTURE TEACHERS**

Students who are considering a career in education, enjoy helping others, learning, service, collaboration, and educational settings are a great fit for Future Teachers. Learn how you can impact lives and get experience in a real educational setting.

**LAUNCH Future Teachers Coursework Opportunities**



**Future Teachers** **7800FT1.0**

<b>Grade Level</b>	11-12	<b>Credits</b>	3	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b>	None				

Course Name	Credit Type	Credits
AP Psychology	Social Studies	1
Educational Inquiry I: Critical Perspectives on Education	Elective	1
Mentorship	Experiential Learning	1

**Future Teachers - Modified Year 1** **7800FT1.1**

<b>Grade Level</b>	11-12	<b>Credits</b>	4	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b>	AP Psychology				

This is a strand modification for any students who have already completed AP Psychology:

Course Name	Credit Type	Credits
Educational Psychology (ECCP, MU)	Social Studies	1
Educational Inquiry I: Critical Perspectives on Education	Elective	1
Introduction to Special Education (ECCP, UW-Whitewater)	Elective	1
Mentorship	Experiential Learning	1

**Future Teachers - Year 2** **7800FT2.0**

<b>Grade Level</b>	12	<b>Credits</b>	3-4	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b>	AP Psychology				

Course Name	Credit Type	Credits
Educational Psychology (ECCP, MU)	Social Studies	1
Instructional Design/Teaching (ECCP, MU)	Elective	1
Mentorship	Experiential Learning	1
Optional Course: Introduction to Special Education (ECCP, UW-Whitewater)	Elective	1

**Future Teachers - Modified Year 2** **7800FT2.1**

<b>Grade Level</b>	12	<b>Credits</b>	3-4	<b>Location</b>	Brookfield East
<b>Prerequisite(s)</b>	AP Psychology, MU Educational Psychology				

Course Name	Credit Type	Credits
ECCP Course of Student Choice in Educational Field	Varies	1
Instructional Design/Teaching (ECCP, MU)	Elective	1
Mentorship	Experiential Learning	1
Optional Course: Introduction to Special Education (ECCP, UW-Whitewater)	Elective	1

**GLOBAL BUSINESS**

Students who like presenting, DECA, extracurriculars, competition, teamwork, art, music, creativity, and research will enjoy gaining experience in marketing, sales and entrepreneurship while making business connections and developing a product or service.

**Global Business - Grade 11** **7800GB-11**


<b>Grade Level</b>	11	<b>Credits</b>	3	<b>Location</b>	Concurrency
<b>Prerequisite(s)</b>	None				

Course Name	Credit Type	Credits
English 11	English	1
Business Strategy	Business	1
Mentorship	Experiential Learning	1

**Global Business - Grade 12** **7800GB-12**

**Grade Level** 12 **Credits** 3 **Location** Concurrency

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
Business Strategy 	Business	1
Mentorship	Experiential Learning	1

**Global Business - Year 2** **7800GB-12Y2**

**Grade Level** 12 **Credits** 3 **Location** Concurrency

**Prerequisite(s)** LAUNCH Engineering Foundations

Course Name	Credit Type	Credits
Writing for Research	English	1
Project Pursuit - Advanced Business Strategy	Business	1
Mentorship	Experiential Learning	1

**Business 2.0** **7800BS2**

**Grade Level** 12 **Credits** 1.5 **Location** Concurrency

**Prerequisite(s)** One prior year of LAUNCH

SINGLE SEMESTER OFFERING

Students will engage in profession based experiences in a dynamic business like setting. Students will apply business strategy to projects that require collaborative teams to solve problems and communicate results to business and industry partners. LAUNCH 2.0 students will gain skills in ethics, stakeholder management, project management and global/cultural awareness that will prepare them for 21st-century workplaces. This dual credit course focuses on an integrated understanding of sources of competitive/strategic advantage derived from corporate citizenship in the public policy, social, economics, and ecological environments.

Course Name	Credit Type	Credits
Business & Society 	Business	1

**Healthcare Solutions** **7800HS**

**Grade Level** 11-12 **Credits** 3 **Location** Brookfield East

**Prerequisite(s)** None

Course Name	Credit Type	Credits
PLTW: Medical Interventions 	Science	1
Culture of Healthcare 	Science	1
Mentorship	Experiential Learning	1

**LAW AND PUBLIC POLICY**

Students who are interested in a career in law, public service or social work will enjoy the opportunities within this strand to research, present, and understand the law and current issues.

**Law and Public Policy - Year 1** **7800LPP**

**Grade Level** 11-12 **Credits** 3 **Location** Concurrency

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Current Issues	Social Studies	0.5
Crime, Society and the Law	Social Studies	0.5
AP Language and Composition	English	1
Mentorship	Experiential Learning	1

**Law and Public Policy - Year 2** **7800LPPY2**

**Grade Level** 12 **Credits** 3 **Location** Concurrency

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
Project Pursuit - Advanced Law and Public Policy	Social Studies	1
Mentorship	Experiential Learning	1

**MEDIA SOLUTIONS**

Students who like using the design process to communicate through digital technology will get hands-on experience in audio, videography, photography, graphic design, social media, and branding & fabrication.

This strand supports students' choice of industry certifications.

**Media Solutions - Grade 11** **7800MS-11**

**Grade Level** 11-12 **Credits** 3 **Location** Concurrency

**Prerequisite(s)** None

Course Name	Credit Type	Credits
English 11	English	1
Digital Imaging Seminar	ATE or Art	1
Mentorship	Experiential Learning	1

**Media Solutions - Grade 12** **7800MS-12**

**Grade Level** 12 **Credits** 3 **Location** Concurrency

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Writing for Research	English	1
Digital Imaging Seminar	ATE or Art	1
Mentorship	Experiential Learning	1


**MEDICINE & HEALTHCARE**

Students can explore healthcare careers, understand medical professions and patient needs while learning medical terms and best practices during unique project experiences.

**Medicine and Healthcare - Year 1 7800MH**

**Grade Level** 11-12 **Credits** 3 **Location** Brookfield East



**Prerequisite(s)** None

Course Name	Credit Type	Credits
Medical Terminology 	Science	1
Culture of Healthcare 	Science	1
Mentorship	Experiential Learning	1

**Medicine and Healthcare - Year 2 7800MH2**

**Grade Level** 12 **Credits** 3 **Location** Brookfield East

**Prerequisite(s)** None

Course Name	Credit Type	Credits
Project Pursuit - Healthcare	Elective	1
Anatomy & Physiology (ECCP - UWM-Waukesha) 	Science	1
Mentorship	Experiential Learning	1
Optional Course: Certified Nursing Assistant (CNA, Gateway) 	Elective	0.5

**Skilled Building Trades 7800SBT**

**Grade Level** 11-12 **Credits** 3 **Location** Wauwatosa East

**Prerequisite(s)** Geometry

Students who like building or improving things, using tools/ machinery will gain hands-on experience, using the design process in building projects. Ideal for students interested in a career in construction, carpentry, plumbing or HVAC.

Course Name	Credit Type	Credits
Light Building Construction	ATE	1
Math for Skilled Trades	Mathematics	1
Mentorship	Experiential Learning	1

**Spanish in Healthcare 7800SH**

**Grade Level** 11-12 **Credits** 1.5 **Location** Brookfield East

**Prerequisite(s)** Geometry

SINGLE SEMESTER OFFERING

Understand how culture influences healthcare experiences and learn medical terminology in Spanish.

Course Name	Credit Type	Credits
Spanish in Healthcare	World Languages	1
Mentorship	Experiential Learning	0.5

# MATHEMATICS

## Graduation Requirements: 3.0 credits

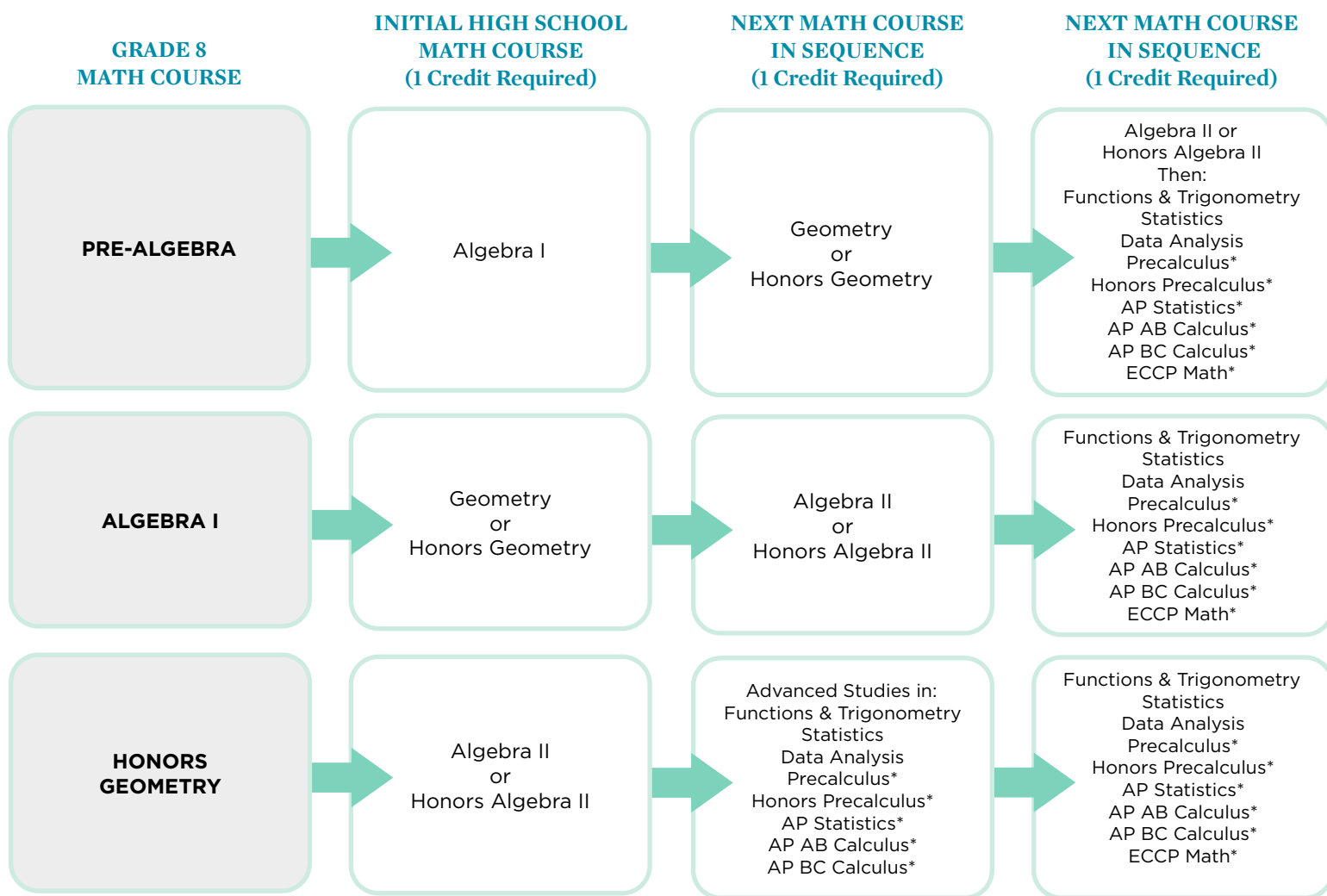
Students prepared for the transition to college and career options should plan to complete a minimum of Algebra I (1.0 credit), Geometry (1.0 credit), Algebra II (1.0 credit), Statistics (0.5 credit) and one advanced math course throughout the high school program of studies. Completion of some of these courses may occur during the program of studies at the Middle School. Successful completion of these courses is an indicator that students have mastered problem solving skills necessary in all college programs of study and career fields.

The math department believes that all students planning to pursue any postsecondary education should take math each year of high school, earning at least 4 math credits for the following reasons:

- Post-secondary institutions often require students to take a math placement exam at the end of the student's senior year and students do better on these exams if they have taken 4 years of high school math.
- The ACT includes Algebra I, Geometry, Algebra II, and Trigonometry topics.
- Many college majors require a statistics course.
- Admission officers are often looking for four years of mathematics, or at minimum that a student has completed Algebra II.

High School students may choose to take two math courses in one year.

## MATH COURSE SEQUENCE



\*Course has recommended prerequisite(s) in addition to Algebra II.

**Algebra I** **1803A/1803B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Algebra I is the foundation for mathematical reasoning. Strategies and skills learned in Algebra I are transferred to nearly every other content area and are used in everyday life. The course is designed to use inquiry based strategies to help build conceptual understanding, vocabulary, and to help students most effectively explain their reasoning. Key concepts include solving and graphing linear equations, functions with exponents, polynomial and quadratic functions, and statistics. Students will be asked to discover and apply formulas to solve for unknowns and develop problem solving ability.

**Algebra II** **1804A/1804B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Algebra I

Algebra II is a continuation of Algebra I, including the solutions of equations, inequalities, and systems. An emphasis is placed upon understanding relations and functions, including quadratic functions, polynomial functions, radical functions, exponential functions, logarithmic functions and rational functions. Also, inferential statistics are introduced.

**Honors Algebra II** **1805A/1805B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Honors Geometry or Consent of Instructor

Honors Algebra II is a rigorous, fast-paced course that includes a more in-depth study of Algebra II, including the solutions of equations, inequalities, and systems. An emphasis is placed upon understanding relations and functions, including quadratic functions, polynomial functions, radical functions, exponential functions, logarithmic functions and rational functions. Also, inferential statistics are introduced.

**AP AB Calculus** **1860A/1860B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Precalculus  
Honors Precalculus

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. Technology will be used by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. This course is equivalent to a one-semester college calculus course. Students will learn about limits, continuity, derivatives, and integrals. All students in this course are strongly encouraged to take the Advanced Placement exam in May. Students may earn 4 or 5 credits which may be counted towards college majors requiring calculus.

A TI-84 or TI-89 graphing calculator is required.

**WEIGHTED GRADE****AP BC Calculus** **1861A/1861B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Honors Precalculus or AP AB Calculus

AP Calculus BC 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. Technology will be used by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. This course is equivalent to two semesters of a college Calculus course. Students will learn all the topics from the AB course, as well as techniques of integrations, Taylor Series, vectors, and polar and parametric functions. All students in this course are expected to take the Advanced Placement exam in May. Students may earn 8 to 10 credits depending on the university, which may be counted towards college majors requiring calculus.

A TI-89 or TI'nspire ex CAS is required.

**WEIGHTED GRADE****AP Statistics** **1862A/1862B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Honors Algebra II or  
Statistics and Functions & Trigonometry

The purpose of Advanced Placement Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad themes: Organizing Data, Producing Data, Probability, and Statistical Inference.

*Some colleges/universities may consider AP Statistics as a social science or business course instead of a math course.***WEIGHTED GRADE****Calculus III** **1817A/1817B****Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** AP BC Calculus

Calculus III is a study of calculus in multivariable. Topics covered in this course include vectors and the geometry of space, vector functions, partial derivatives, multiple integrals, and vector calculus. This course is the equivalent of a third-semester university Calculus course and may be taken for college credit through UW-Oshkosh CAPP.

A TI-84 or TI-89 graphing calculator is required.

**WEIGHTED GRADE**



**Data Analysis  1815**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Statistics

This class is designed to extend the topics that began in Statistics and give meaningful application to the mathematics learned in previous courses. Students will be asked to use a variety of analytical tools to make sense of data sets, perform hypothesis testing, and identify the relationships that exist between variables. Skills learned in this course are highly valued in mathematical, science, economic and business college and career fields.

College credit through UW-Oshkosh CAPP available if student also takes CAPP Statistics.

**WEIGHTED GRADE**

**Functions and Trigonometry 1806**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra II (If taken concurrently, must be taken second or fourth term)

Functions and Trigonometry is designed for the student who wishes to expand the concepts in Algebra II. The course integrates the ideas of functions and trigonometry. This course will build an understanding with real world problems and establish a firm foundation in future work in mathematics courses. A graphing calculator is required.

**Geometry 1807A/1807B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I or equivalent

This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods), the use of postulates and theorems as well as algebraic applications. Geometry development includes measurements, identification and application of polygons, circles and polyhedrons. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

**Honors Geometry 1808A/1808B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra I

Honors Geometry is a rigorous and fast paced course that increases the depth of study related to concepts in Geometry. This course develops geometric concepts, including the study of formal proofs (including coordinate and indirect methods) and algebraic applications. Algebra is used extensively for areas, volumes, lengths, angle measures, and graphing.

**Math for Data Science 7830**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Precalculus or Precalculus & Trigonometry

*This course is only available through the LAUNCH Data Science & Intelligence for Careers Strand.*

Mathematics is the underlying basis of many aspects of data science. In this course, students will experience authentic and effective ways to work with data through cross cutting concepts that can be applied to multiple career fields. This course will provide students with the mathematical foundation needed to understand and deploy the algorithms that drive many of the important data science tools and techniques related to tasks that require optimization, approximation, prediction, classification, and recommendation. The Python programming language will be used to assist with the computationally intensive techniques that will be explored in the course. The learning in this course may be an alternate or extension to Advanced Placement Calculus. By the end of this course, students will have acquired the prerequisite mathematical knowledge to take more advanced courses in data science.

**Precalculus  1809A/1809B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Algebra II or Algebra II and Functions & Trigonometry (If Functions & Trigonometry is taken concurrently with Precalculus, it must be taken first or third term)

Precalculus is a rigorous course encompassing a wide variety of mathematical topics. The content includes mastery of algebraic manipulation of functions (linear, polynomial, rational, exponential, logarithmic, and trigonometric), advanced trigonometry, analytic geometry, logarithms, series and sequences. This course is designed to incorporate theory, process, and application using technology to illustrate concepts whenever appropriate. This course may be taken for college credit through UW-Oshkosh (CAPP). A graphing calculator is required. **WEIGHTED GRADE**

**Honors Precalculus 1810A/1810B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Honors Algebra II or Algebra II and Functions and Trigonometry

Precalculus is a rigorous course encompassing a wide variety of mathematical topics. The content includes mastery of algebraic manipulation of functions (linear, polynomial, rational, exponential, logarithmic, and trigonometric), advanced trigonometry, analytic geometry, logarithms, series and sequences. This course also introduces Calculus outcomes that include limits, asymptotes, continuity and the concept of derivatives. This course is designed to incorporate theory, process, and application using technology to illustrate concepts whenever appropriate. A graphing calculator is required.

Statistics 

1811

Grade Level 10-12 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) Algebra I

Statistics is a course designed to provide a student with an introduction to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course is organized around the themes of one/two variable statistics, calculating probabilities, ways of ordering objects, normal and other probability distributions, and statistical inference. This course will build an understanding with real-world problems, and establish a firm foundation for future work in math and statistics courses. A graphing calculator with a statistics package is required.

College credit through UW-Oshkosh CAPP available if student takes CAPP Data Analysis.

**WEIGHTED GRADE**

**Graduation Requirements:** Music courses can apply toward the 1.0 credit Practical/Fine Arts requirement. A list of courses that will alternate with A/B music courses will be available before registration.

## GENERAL MUSIC

### Digital Music for Musicians and Non-Musicians

1914

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	Yes
<b>Prerequisite(s)</b>	None						

This course will allow students to create their own music experience through the use of virtual instruments and the music mixing program Soundtrap. Students will learn the “language of music” through an introduction to the elements; melody, harmony, rhythm, timbre, texture, and form. Students will explore how to create with the music platform Soundtrap. Students will analyze how music creates and adds meaning to other artistic works including film. Students will analyze and identify the elements of the musical genre of their choice. Finally students will implement their learning by designing and creating a final project. Potential projects include: songwriting, recording and mixing, creating ringtones, creating a music focused podcast, composing and mixing an instrumental work, or creating an original music video.

### Exploring Music Theory and Composition

1913

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	Yes
<b>Prerequisite(s)</b>	None						

This course will provide an introduction to music theory and music composition. Students will be introduced to music performance skills, aural skills, compositional skills, and analytical skills through the exploration of notation, musical terminology, score study and analysis, ear training and composition.

## BAND

All incoming 9th grade band students should register for Concert Band. Auditions for placement into the Symphonic Band and Wind Ensemble will occur by Mid-May of the preceding school year. The typical sequence for band students is Concert Band as a freshman, then Symphonic or Wind Ensemble based on placement after auditions in the sophomore, junior, and senior years.

**Band courses meet all year long on an alternating day schedule.**

**Course Description:** Band is designed to provide students an opportunity to perform and understand quality music in a variety of styles at a technically appropriate level. Instruction is provided to accommodate a variety of needs with a goal of fostering independent musicianship and problem solving skills. Through the rehearsal process, students will study music from a theoretical, historical, cultural, technical, and aesthetic perspective. Students will also study the tools and techniques composers use to elicit the aesthetic and emotional response unique to each piece of music being studied. Obligations include concerts, home football games, basketball games, and parades as outlined in the course syllabus. Commitment to the group is a basic expectation of this course.

### Concert Band

1901A Alt/1901B Alt

<b>Grade Level</b>	9-12	<b>Credit</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Recommendation of middle level instructor or consent of high school instructor						

### Wind Ensemble

1905A Alt/1905B Alt

<b>Grade Level</b>	10-12	<b>Credit</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	By audition only						

### Symphonic Band

1907A Alt/1907B Alt

<b>Grade Level</b>	10-12	<b>Credit</b>	1.0	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	By audition only						

## CHORUS

All incoming 9th grade female students should register for Treble Choir. All incoming 9th grade male students should register for Concert Choir. Auditions for placement into the Women's Ensemble and Chamber Choir will occur in the spring of the preceding school year.

**Choral courses are a year long, cumulative experience. Choral courses meet all year long on an alternating day schedule.**

**Course Description:** Through the rehearsal process, students will study music from a theoretical, historical, cultural, technical, and aesthetic perspective appropriate to their level of comprehension, while utilizing healthy and appropriate vocal technique. The objective is to perform quality high school/collegiate level literature of moderate to advanced difficulty that spans many genres including sacred, secular, pop, and jazz. Mandatory obligations of the course include in-school/morning rehearsals, dress rehearsals, and concerts, as outlined in the course syllabus. Commitment to the group is a basic expectation of the course. (\*Each singer must purchase portions of their choir uniform.)

### Concert Choir

#### 1903A Alt/1903B Alt

**Grade Level** 9-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Grade 9 males only  
Grades 10-12 males & females

### Chamber Choir

#### 1906A Alt/1906B Alt

**Grade Level** 10-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** By audition only

### Treble Choir

#### 1902A Alt/1902B Alt

**Grade Level** 9 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Grade 9 Females only

### Women's Ensemble

#### 1908A Alt/1908B Alt

**Grade Level** 10-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** By audition only

## ORCHESTRA

All incoming 9th grade orchestra students should register for Symphony Orchestra. Auditions for placement into the Chamber Orchestra will occur before April of the preceding school year. The typical sequence for Orchestra students is Symphony Orchestra and then audition for Chamber Orchestra in their sophomore, junior, and senior years.

**Orchestra courses meet all year long on an alternating day schedule.**

**Course Description:** Orchestra classes provide a learning environment for students to develop musical knowledge, skills, and understandings through a variety of experiences - creating, performing, responding to, and making connections to music - ultimately building a lifelong appreciation of music. The orchestra curriculum aims to expand students' understanding of music within larger personal, cultural, and historical contexts through performance inquiry, theoretical study, and connection with peers through music. Large ensemble instruction utilizes both traditional rehearsal models as well as personalized learning opportunities to enhance student's experience and interaction with the curriculum. Creating, Performing, and Responding, and Connecting will all be addressed within the large ensemble structure through study of quality orchestral literature as well as music history and theory. Students will work toward fostering independent musicianship and problem solving skills through their participation in orchestra. Commitment to the group is a basic expectation of this course.

### Symphony Orchestra

#### 1904A Alt/1904B Alt

**Grade Level** 9-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Recommendation of middle level instructor or consent of high school instructor

### Chamber Orchestra

#### 1909A Alt/1909B Alt

**Grade Level** 10-12 **Credit** 1.0 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** One year in Symphony Orchestra, Audition (including Class B Solo, Scales, Sight-reading)

**Graduation Requirements:** 1.5 credits of Physical Education is required for graduation and should be taken over the course of 3 separate years.

**Physical Education 9 (PE 09):** This is a graduation requirement for all students and a prerequisite for all upper level physical education courses. This course may be taken through the School District of Elmbrook's Summer School program; if Physical Education 9 is taken in the summer, no physical education course taken the next school year will be counted toward the graduation requirement.

**Physical Education Grades 10-12:** Students in grades 10-12 must complete 1 additional credit (2 classes) of physical education coursework to meet the state and district graduation requirement. **To meet the graduation requirement, the physical education courses must be taken at least one school year apart and a course may only be taken one time except where noted in the course offering guide.** All Physical Education courses will have a swimming unit and fitness assessment component. For each class, the swimming unit may be comprised of a variety of skills and water games as determined by the teacher of the course. Students will be fitness tested for cardiovascular endurance, muscle endurance, flexibility, agility and muscular strength. The FitnessGram Pacer Test is a common assessment across all classes and is assessed two times throughout the term.

## Advanced Team and Individual Sports 2021

<b>Grade Level</b>	12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	1.5 credits in Physical Education courses						

This physical education class includes experience in more advanced and complex motor skills. Emphasis is placed on student choice for individuals and team games and the attainment of lifetime skills for recreational participation in small and large group situations. The majority of the time will be spent on game play and tournament-type competition with students acting as facilitators of game and tournament play. In an effort to continually build on the student's fitness level, a variety of fitness based activities will be integrated throughout the term.

## Lifeguarding 2004

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 15+ years old Level V swimming ability						

The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguarding participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries and sudden illness until emergency medical services (EMS) personnel take over. Our Lifeguarding course offers students the chance to achieve Red Cross certification in Lifeguarding. Students will learn various lifeguarding skills, CPR for the Professional Rescuer, and First Aid. Students will have a chance to refine rescue skills and work on swimming endurance. Students must turn 15 years old by the end of the term that they are taking the class. Course is repeatable after two years.

## Lifetime Sports 2015

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

Lifetime Sports emphasizes activities that are fun for all ages and combine physical skill with a relaxing social component. Students will have the opportunity to explore sports not common in prerequisite physical education classes. In an effort to continually build on the student's fitness level, FITNESSGRAM testing and activities related to the five components of fitness will be incorporated throughout the term. Additionally, this class will spend a portion of the term in the pool reviewing strokes and playing water based games. \*The class may participate in several out of school field trips which have minimal fees. These field trips are designed to enhance the students' experience in the course.

## Outdoor Pursuits 2006

<b>Grade Level</b>	11-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09						

Outdoor Pursuits offers classroom and field experience in the areas of archery, team building, canoeing, fishing, rock climbing, frisbee golf, mountain biking, scuba diving, survival skills, rope tying and outdoor living. Activities are designed to teach students lifetime physical and recreational skills, providing an understanding of and respect for the environment in which these activities occur.

The class will participate in several out of school field trips which require fees. These field trips are designed to enhance the students' experience in the course.

**PE 09** **2001**

<b>Grade Level</b>	9-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	None						

Students are introduced to a variety of physical education activities so that they may continue to develop and explore areas of interest. The five components of health-related fitness, team sports, individual and dual activities, swimming, and team building activities are explored throughout the course. In addition, students will set fitness goals, develop fitness plans, and regularly assess their progress toward fitness goals.

Part of our Human Growth & Development curriculum occurs during this course. Parents are notified annually of lessons specific to Human Growth, and Development.

**PE Assistant** **2007**

<b>Grade Level</b>	12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	Successful completion of Physical Education requirements for graduation, application, and interview process for all perspective candidates; consent of instructor						

As part of the physical education program, qualified seniors are provided the opportunity to observe the teacher in a classroom setting. The students will develop leadership roles, provide special help to physical education students and develop an increased awareness of their own skills regarding the various aspects of teaching and an advanced ability to interact with others. Every course will include a swimming unit and a fitness assessment. Students are encouraged to enroll in as many electives as designed.

**Note: This course is PASS/FAIL and will not count in calculating GPA.**

**Personal Fitness and Wellness** **2016**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

This course assists students in designing and monitoring a personalized workout and wellness plan. Unlike traditional physical education classes, Personal Fitness & Wellness leverages current fitness trends like group exercise, HIIT, yoga, Pilates, zumba and weight training to help achieve a personal fitness and wellness goal. Topics such as nutrition, hydration, sleep habits, and stress management for optimal personal well- being will be covered on a regular basis. There are also field trips to local fitness facilities to enhance the student's experience.

There will be a fee associated with all field trips.

**Sports Officiating** **2020**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

Sports Officiating will help students gain knowledge and understanding of rules and officiating techniques for youth sports while developing their own fitness through participation in team-based sports. This class will consist of both a classroom learning component (aimed toward rules, signals, officiating conduct, etc.) and daily opportunities for fitness and exercise. Students will be provided several opportunities to officiate games during class time. This course will prepare students for potential employment as a sports official.

**Racquet and Team Sports** **2008**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

The emphasis in Racquet and Team Sports is placed on the rules and skills necessary to play at a competitive level. Emphasis is also placed on attainment of lifetime skills and sports for recreational participation. In an effort to continually build on the student's fitness level, FITNESSGRAM testing and activities related to the five components of fitness will be incorporated throughout the term. The instruction is fast paced and students will be competing in games on a daily basis. Additionally, this class will spend a portion of the term in the pool reviewing strokes and playing water based games.

**Ultimate Strength and Conditioning** **2019**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	Yes	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

This course is designed for students that would like to create and manage their own personal fitness plans. Students will be introduced to concepts of program design such as selection and arrangement of exercises, determining sets, reps, and loads, and the monitoring and testing of physical performance. Students will also engage in a battery of health-related fitness tests to assess their individual fitness levels and create a foundation for personalization of their own fitness plans. Cardiovascular exercise will also be included to round out a complete fitness plan.

**Variety Sports** **2013**

<b>Grade Level</b>	10-12	<b>Credit/Semester</b>	0.5	<b>Repeatable</b>	No	<b>NCAA</b>	No
<b>Prerequisite(s)</b>	PE 09 or equivalent						

The emphasis in Variety Sports is placed on the rules and skills necessary to play at a competitive level. The sports that are played will be **non-traditional** such as Tchoukball, Omnikinball and Takraw. Emphasis is also placed on attainment of lifetime skills and sports for recreational participation such as spikeball and Kan Jam. In an effort to continually build on the student's fitness level, FITNESSGRAM testing and activities related to the five components of fitness will be incorporated throughout the term. The instruction is fast paced and students will be competing in games on a daily basis. Additionally, this class will spend a portion of the term in the pool reviewing strokes and playing water based games.

## Graduation Requirements: 3.0 credits

Please note that most universities suggest students take Biology and 2 credits of Physical Science (Chemistry, Geology, Astronomy & Meteorology, Physics, AP Chemistry, AP Physics).

### Anatomy and Physiology 2101A/2101B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Biology

Anatomy and Physiology is an advanced biology course designed to expose students to the form and function of the human body with an emphasis on structures, interactions, and cellular components. Extensive use and knowledge of vocabulary, including medical terminology, is emphasized throughout the course.

### AP Biology 2160A/2160B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Biology  
Chemistry

AP Biology is designed to be the equivalent of a College Introductory Biology Course taken by biology majors during their first year. This course differs significantly from the usual high school biology course in respect to the textbook used, the range and depth of topics covered, and the time and effort required. A heavy emphasis will be placed on inquiry based laboratory investigations. For each big idea students will design and execute at least two laboratory investigations. All investigations and activities will emphasize the seven science practices that are designed to deepen students understanding of each big idea and allow connections to be made between each one. AP Biology will provide opportunities for students to develop, record, and communicate the results of laboratory investigations.

**WEIGHTED GRADE**

### AP Chemistry 2105A/2105B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Completion of or Concurrent Enrollment in Algebra II and Chemistry

AP Chemistry is for students who have the willingness and ability to meet the academic challenges of a full college chemistry course. The focus of the class is to prepare students for the AP Chemistry exam, which is taken in May, to potentially earn college credit. This rigorous course requires extensive study/preparation outside of the classroom and emphasizes strong chemical/mathematical relationships and in-depth analysis of chemical reactions. The AP Chemistry course requires students to research and investigate chemical principles in the laboratory, while developing precise, effective lab techniques.

**WEIGHTED GRADE**

### AP Environmental Science 2162A/2162B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Biology  
Chemistry

AP Environmental Science is focused on the study of the interrelationships between organisms and their physical surroundings and the effects man has within the worldwide ecosystem. This course provides students with knowledge to evaluate choices that humans have made that have impacted the environment and optimize worldwide living standards. The course emphasizes the development of scientific principles, which allow students to identify and analyze environmental problems and associated risks. Students also examine solutions that can resolve/prevent ecological problems through critical and creative thinking skills.

**WEIGHTED GRADE**

### AP Physics I 2165A/2165B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Algebra II or concurrent enrollment

AP Physics I is equivalent to a first-semester algebra-based college physics course. The course covers Newtonian mechanics, work, energy, power, rotational motion, momentum, and fluid dynamics. The ability to develop and use physics knowledge by using scientific inquiry and reasoning is at the heart of this course. It is recommended that students who take this course follow it with AP Physics 2 for a complete coverage of physics topics and adequate preparation for college science courses.

**WEIGHTED GRADE**

### AP Physics II: Algebra Based 2166A/2166B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

AP Physics II is the equivalent to a second-semester algebra-based college physics course. The course covers waves: thermodynamics; electricity and magnetism; optics and atomic and nuclear physics. The ability to develop and use physics knowledge by using scientific inquiry and reasoning is at the heart of this course. Students interested in Engineering and the physical science should follow this course with AP Physics C: Calculus-Based.

**WEIGHTED GRADE**

AP Physics C 

2164A/2164B

Grade Level 10-12 Credit/Semester 1.0 Repeatable No NCAA Yes

Prerequisite(s) Physics or AP Physics I and AP Calculus or concurrent enrollment in AP Calculus

AP Physics C: Mechanics is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion: work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

AP Physics C: Electricity and Magnetism is also a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

**WEIGHTED GRADE**

## Astronomy and Meteorology

2114

Grade Level 10-12 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) None

Astronomy will include the origin and history of the universe, the formation of the Earth, and the solar system. Many standard conceptual astronomy topics such as planets, stars, galaxies and more intriguing topics such as the origin of the planet and the search for extraterrestrial intelligence will be discussed. We will also study Meteorology which will include atmospheric makeup, water in the atmosphere, storm systems, and weather.

## Biology

2102A/2102B

Grade Level 9-12 Credit/Semester 1.0 Repeatable No NCAA Yes

Prerequisite(s) None

Biology is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in population over time. Students explore biological concepts through an inquiry approach.

## Honors Biology

2103A/2103B

Grade Level 9-12 Credit/Semester 1.0 Repeatable No NCAA Yes

Prerequisite(s) None

Biology is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. Students explore biological concepts through an inquiry approach. Honors Biology is a more in depth course and provides a more expanded curriculum (compared to biology) and will provide more challenge for the self-directed learner.

## Chemistry

2105A/2105B

Grade Level 10-12 Credit/Semester 1.0 Repeatable No NCAA Yes

Prerequisite(s) Algebra I

General Chemistry introduces students to chemistry and provides the foundation for a college chemistry experience. Students will work to develop problem-solving skills and the math necessary to carry out scientific calculations. Topics studied include: chemical and physical change, conversions, atomic models, the mole concepts, electron configurations, periodic law, chemical bonding, naming compounds, writing formulas, reaction types, stoichiometry, gas laws, kinetic molecular theory, heat changes in reactions, and solution chemistry. Tests, quizzes, and lab activities require students to demonstrate competent algebraic math skills along with critical, analytical and abstract thought.

## Honors Chemistry

2106A/2106B

Grade Level 10-12 Credit/Semester 1.0 Repeatable No NCAA Yes

Prerequisite(s) Algebra II concurrent enrollment

In Honors Chemistry, students will work to develop skills in scientific calculations and problem-solving techniques. Beyond the general chemistry curriculum, honor students will study quantum theory, thermodynamics, acid-base reactions, pH, indicators, titrations, and advanced stoichiometric relations with more sophisticated, multi-step problems. In addition, each unit is explored in greater depth and at a faster pace than the general chemistry course. Tests, quizzes, and lab reports require students to demonstrate strong math skills along with critical, analytical and abstract thought.

Culture of Healthcare 

1505A/1505B

Grade Level 11-12 Credit/Semester 1.0 Repeatable No NCAA No

Prerequisite(s) None

This class is designed for the student who has an interest in pursuing a career in the healthcare industry. Health careers are explored through the use of guest speakers, job shadowing, and individual investigation. Students assess their own personal interests and aptitudes for working in this rapidly growing area. Current issues regarding health care are addressed. This course is transcribed with Waukesha County Technical College; students enrolled are eligible to earn 2 college credits that appear on a college transcript (may/may not be transferable to other institutions of higher education). Offered within the LAUNCH Medicine and Healthcare Strand and the LAUNCH Healthcare Solutions Strand.

**WEIGHTED GRADE**

## Ecology

2109

Grade Level 10-12 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) None

Students investigate the living and nonliving aspects of the environment and how they impact one another. Current environmental issues are discussed throughout the term including topics such as endangered species and natural resources management. Web-based instruction, reading, discussions, audiovisual presentations, fieldwork and lecture are teaching and learning strategies used to help students gain mastery of ecological concepts.



**Geology** 2115**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

This course is an introduction to the geological processes within and on the surface of the earth. Students will learn the description, classification and origin of minerals and rocks. Students will also study the internal and external processes that include volcanism, earthquakes, deformation, mountain building.

**Marine Biology** 2104**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Within this course, students will explore the basic principles of marine biology, ocean ecology, marine life, and the impact that human activity has on marine life. Grounded in scientific inquiry, specific topics students examine include marine ecosystems and the relationships among species; the evolution, adaptation, and classification of marine species; and human impact and sustainability of our world's oceans.

**Medical Terminology**  1510A/1510B**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No**Prerequisite(s)** Biology or concurrent enrollment

Medical Terminology focuses on the component parts of medical terms, prefixes, suffixes, and root words. Students practice formation, analysis and reconstruction of terms. Emphasis is placed on spelling, definition, and pronunciation. The course also includes an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as, systemic and surgical terminology. This course is transcripted with Waukesha County Technical College (WCTC) and may/may not be transferable to other institutions of higher education. This course may be recognized by UW-Milwaukee School of Nursing. Offered within the LAUNCH Medicine and Healthcare Strand. **WEIGHTED GRADE**

**Organic Chemistry** 2107A/2107B**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Chemistry or Honors Chemistry

Organic Chemistry is a comprehensive introduction to the chemistry of carbon. Students will work to develop skills and understanding of current ideas of bonding and structure, major reaction mechanisms and pathways, and complete an organic based research project. This course will prepare students for entrance to college level Organic Chemistry.

**Physics** 2111A/2111B**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Physics is the study of the relationship between matter and energy and is conceptual in nature. The course is concerned with the fundamental laws and principles of the physical world and their practical applications. Topics of study are selected from the following: mechanics, wave motion, light, sound, and electricity. Course activities involve laboratory work with comprehensive reports, student presentations, math skills such as Algebra and Graphing Familiarity, and periodic classroom demonstrations.

**PLTW Biomedical Innovation**  2072A/2072B**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

In the PLTW (Project Lead the Way) Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project. This course may have a transferable college credit option. Visit PLTW.org to learn more. **WEIGHTED GRADE**

**PLTW Human Body Systems**  2168A/2168B**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal mannequin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. This course may have a transferable college credit option. Visit PLTW.org to learn more. **WEIGHTED GRADE**

**PLTW Medical Interventions**  **2071A/2071B**
**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

*This course is only available through the LAUNCH Healthcare Solutions Strand.*

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

This course may have a transferable college credit option. Visit [PLTW.org](http://PLTW.org) to learn more.

**WEIGHTED GRADE**

**PLTW Principles of Biomedical Science**  **2167A/2167B**
**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate the lifestyle choices and medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Project Lead the Way Biomedical Sciences program and lay the scientific foundation for subsequent courses.

This course may have a transferable college credit option. Visit [PLTW.org](http://PLTW.org) to learn more.

**WEIGHTED GRADE**

# SOCIAL STUDIES

Graduation Requirements: 3.5 credits

Grade	Required Course Work	Elective Offerings	
9	World History or AP World History	AP Human Geography AP World History	
10	Human Geography or AP Human Geography*		
11	20th Century American History or AP U.S. History	Abnormal Psychology Crime, Society, & the Law Current Issues Modern Society AP European History AP Psychology	AP Macro Economics AP Micro Economics AP United States History AP U.S. Government and Politics
12	Principles of American Democracy or AP U.S. Government & Politics  AND  Economics or AP Micro Economics or AP Macro Economics		

\* Human Geography or AP Human Geography course completion is required for the graduating class of 2026 and later.

## 20th Century American History 2202A/2202B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Beginning with an analysis of significant events of the 19th Century, 20th Century American History asks students to examine and understand the importance of the emergence of the United States as a world power, and track the political, social, and economic changes of each decade through the end of the century. Students will demonstrate knowledge of major historical figures, dates and events of each decade. Throughout the decades, students will identify strengths and weaknesses of American foreign policy, analyze the economic impact of various changes, and evaluate public policy and compare/contrast a variety of reform movements.

## Abnormal Psychology 2210

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Abnormal Psychology investigates the experience and expression of psychological disorders, what it means to be abnormal, and its effect on people's lives. Students are encouraged to think analytically and challenge their beliefs regarding abnormal behavior while learning the biological/scientific/socio-cultural basis for mental illnesses. Students will learn about the subjective experience, causal factors, clinical presentation, and methods of assessment and treatment of different types of psychological disorders.

**AP European History**  **2260A/2260B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

**WEIGHTED GRADE**

**AP Human Geography**  **2273A/2273B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

AP Human Geography introduces high school students to college-level introductory human geography or cultural geography. The content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction.

Human Geography or AP Human Geography is a graduation requirement for the graduating class of 2026 and later.

**WEIGHTED GRADE**

**AP Macro Economics (AP Macro)**  **2261**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course prepares students to pass the Advanced Placement test in May in Macro Economics and potentially earn college credit. Whereas AP Micro Economics focuses its attention on the small parts that make up the entire economy, Advanced Placement Macro Economics focuses on analyzing the economy as a whole unit. Students will gain a thorough understanding of the problems, principles, theories, and solutions to our nation's economy. The emphasis in Macro Economics is on measuring national economic performance, such as unemployment, inflation, and gross domestic product, and analyzing solutions to these economic problems by applying monetary and fiscal policy. The student will explore and analyze the methods the government uses to improve our economy. In addition, the course will develop an understanding of international economic principles and applications.

**WEIGHTED GRADE**

**AP Micro Economics (AP Micro)**  **2262**

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course prepares the students to pass the Micro Economics Advanced Placement test in May and potentially earn college credit. Students who are considering studying business, education, law, pre-Med, or graduate school should take AP Economics to bolster their analytical skills. The course gives students a thorough understanding of the principles of economics that apply to the individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on demand and supply theories, and how it influences the prices of goods and services, resources, interest rates, rents and wage levels. Students will gain an in depth understanding of the different types of competitive markets and how decisions are made in each type. The role government plays in regulating and promoting economic efficiency, equity and economic goals is analyzed in great depth.

**WEIGHTED GRADE**

**AP Psychology**  **2263A/2263B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

**WEIGHTED GRADE**

**AP U.S. Government and Politics**  **2264A/2264B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. This course may fulfill the graduation requirement in lieu of Principles of American Democracy, and must be taken in its entirety.

**WEIGHTED GRADE**

**AP U.S. History**  **2265A/2265B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

**WEIGHTED GRADE**

**AP World History**  **2266A/2266B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. The AP World History: Modern course requires that students learn world history from a global perspective. Balanced coverage of the regions within the course ensures that a single region is not situated at the center of the historical narrative.

**WEIGHTED GRADE**

**Crime, Society and Law** **2211**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

This course will introduce students to the US legal system, including the federal and state court systems, and constitutional and criminal law. Additionally, students will become familiar with criminology, corrections, deviance, and profiling. Students will gain an understanding of the careers associated with the legal and justice system and rehabilitation/corrections.

**Educational Inquiry 1: Critical Perspectives on Education**  **7816A/7816B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

*This course is only available through the LAUNCH Future Teachers Strand.*

Critical and reflective examination of assumptions about schooling in the United States including the impacts of race, ethnicity, class and gender; power and control in school and community contexts; and the concerns, demands, conditions, and rewards of the teaching profession. Field Experiences required.

**WEIGHTED GRADE**

**Current Issues** **2203**

**Grade Level** 10-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Current Issues is directed toward teaching high school students to conduct an in-depth study and analysis of important social, economic, and political concerns. Current issues is a dynamic, changing course which meets the students needs for structure and direction, yet allows them the time and freedom to develop research and analysis skills, and to apply them in the formation of intelligent opinions on any issue. Students assist in choosing some of the topics to be analyzed. Some issues selected will provide opportunities for class investigation, while other topics will provide impetus for independent research. Students will use printed, electronic, and visual media to keep current on important news events.

**Economics** **2204**

**Grade Level** 12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Economics will introduce the student to microeconomic and macroeconomic theories and problems. This is an introductory overview of economics. The emphasis on this course is on decision- making. The course equips each student with the ability to become a better decision maker regarding economic events and problems so they will become a more informed citizen. The students will study the foundations of economic analysis, demand and supply mechanics, competitive and noncompetitive markets, the role of profit, labor economics, money and banking economics, income distribution and poverty, government spending and taxing decisions, investing, measuring economic performance of our nation, inflation, unemployment, debts and deficits, and international economics. Students will engage in critical thinking activities, discussions, debates, and term projects to gain an understanding of these economic concepts in addition to traditional testing issues.

**Human Geography** 2212

Grade Level 10 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) None

Human Geography is the study of the interconnectedness between people, place, and environment. Through an inquiry approach, students learn about and analyze the complex relationships between people and their physical surroundings. Topics of study include population and migration, cultural patterns and processes, and political and economic development.

Human Geography or AP Human Geography is a graduation requirement for the graduating class of 2026 and later.

**Modern Society** 2207

Grade Level 11-12 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) None

Modern Society offers students an introduction to the field of sociology. It provides the students with an understanding of the tools and techniques of sociology. This course is designed for students who want to study human relationships, particularly during adolescence. Students will learn about how sociologists study cultures and their differences. Knowledge of minority groups will be expanded in an attempt to create an awareness of prejudicial attitudes and discriminatory practices. This course will also expose students to how social groups and social classes affect human behavior.

**Principles of American Democracy** 2208

Grade Level 12 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) None

Principles of American Democracy provides students with a working knowledge of the structure and function of the federal government. Students will investigate the basic principles of our government, the rights, freedoms, and responsibilities of U.S. citizens, the adaptability of our democratic system to our changing world and society, the role of public opinion and special interests in policy-making, the role of political parties, and basic election procedures.

**Psychology** 2209

Grade Level 10-12 Credit/Semester 0.5 Repeatable No NCAA Yes

Prerequisite(s) None

Psychology explores the fascinating subject of human behavior and the mind. It seeks to explain why people think, feel, and behave the way they do. The subject matter of psychology is the individual. Through a variety of classroom activities and experiments, the student is introduced to basic principles of psychology such as learning, dreams, behavior, psychological disturbance, and human development through the lifespan.

**World History** 2201A/2201B

Grade Level 9-12 Credit/Semester 1.0 Repeatable No NCAA Yes

Prerequisite(s) None

World History provides students with a working knowledge of world history beginning with the European Renaissance and Reformation through the late 20th century. Students will examine and understand the importance of historical, political, economic, and social changes during this period. Topics to be studied include religious change development of science/technology, imperialism/nationalism, shifts in world power, world wars, revolutions, and the emergence of the Cold War.

# WORLD LANGUAGES

## World Languages Mission Statement

Our mission is to empower our students to be global citizens who are linguistically proficient and culturally competent.

We believe languages:

- are a gateway to understanding multiple perspectives essential to today's society;
- foster the exchange of knowledge, information, and ideas;
- strengthen and broaden academic performance across subjects;
- Increases academic achievement by improving memory, listening skills, curiosity, critical thinking, and problem solving;
- increase college and workforce readiness and marketability;
- enriches personal lives.

### French 1 1601A/1601B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Have you ever wanted to eat a croissant while looking at the Eiffel Tower? Have you ever wanted to travel to Paris and stroll on the Champs-Elysees? Have you ever wanted to flip a crepe and say "Oh là là!" If so, French is for you! You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the French-speaking world. Bon voyage!

### French 2 1602A/1602B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 1

Through the study of French-speaking people, French 2 expands previous knowledge of the French language through the study of train and airplane travel, sports, daily routine and general health, and cultural and leisure activities. The students will express themselves and initiate conversations in the present and past tenses.

### French 3 1603A/1603B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 2

Through the study of French-speaking people, French 3 will expand previous knowledge with the study of telecommunications, travel and transportation, health and medicine, the banking and postal systems, and gastronomy. Students will express themselves and initiate conversations. Students will speak, read, write, and comprehend with an emphasis on the present, past, future, imperfect, conditional, and command forms.

### French 4 1604A/1604B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 3

French 4 will expand previous knowledge through the study of foreign travel, public transportation, holidays, professions, and cultural etiquette in France, the Maghreb, and agriculture in France. Students will speak, write, read, and comprehend in the indicative and subjunctive mood. Students will also read authentic French short stories and will explore French cinema.

### French 5 1605A/1605B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** French 4

Through the study of the French-speaking world, French 5 will expand previous knowledge through the study of literature, history, current events, film and the arts and the sciences. Students will examine their own place in the global culture through their study of selected short stories, poems, novels, and other resources. Students will develop the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. Course content can reflect intellectual interests shared by the students and teachers.

This course may be taken for dual credit through UW- Oshkosh CAPP.

**WEIGHTED GRADE**

### German 1 1611A/1611B

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Take a class that will help you meet lifelong friends! In German 1, you will learn to express your interests, daily life, likes and dislikes in a new language. You will interact with classmates, laugh, and learn a lot about yourself and language as you collaborate, read, and write each day. German is a great language for everyone. It is also a good language to pair with the sciences, history, and music. Specific topics include hobbies, family, school, clothing, food, and German traditions.

**German 2** **1612A/1612B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** German 1

Continue your language journey in German 2 where you will learn to talk about the past and the future with videos, music, and stories. Topics include obligations, health, travel, history, gift giving, and more traditions. Come back to German with your friends and learn even more ways to say the words “the” with dative case! It is suggested that the student has earned a C or better in German 1 OR the consent of the current instructor to advance to the next level.

**German 3** **1613A/1613B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** German 2

Students in German 3 are ready to discover through film clips, reading, and cultural experiences presented in German. Topics include comparing life in different cultures, discovery through adventure, fairy tales, significant German speakers, and Austria. This is also a perfect class for former immersion students to transition into high school German and refine their German grammar. It is suggested that the student has earned a C or better in German 1 OR the consent of the current instructor to advance to the next level.

**German 4** **1614A/1614B****Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** German 3

This is the year of inventions, contemporary issues, and legends! Students will build on previous knowledge as they explore new topics through a variety of media. Students will deepen their cultural insights through the use of literature and other authentic materials. They will express themselves in German creatively, using more complex grammar, such as relative pronouns and passive voice.

**German 5** **1615A/1615B****Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** German 4

Students will refine their German skills through literature, history, culture and review of major grammatical concepts. Topics may include: immigration, World War II, forms of prejudice, music and art. Students will become increasingly fluent as they begin to hypothesize, negotiate and persuade in German. German 5 provides a solid foundation for study of German at the college level.

This course may be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE****Latin 1** **1621A/1621B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** None

Travel back in time 2000 years and enter a world of gladiators, merchants, and mythology. In Latin 1, we follow in the footsteps of Caecilius, a Roman banker, as he walks the streets of Pompeii to go to a show, shop for a new toga, or cast a vote for his favorite politician. In addition to building a strong foundation in Latin, the language of the ancient Romans, students in this class will examine a variety of cultural topics such as Roman entertainment, daily life (food, clothing, family, etc.), Greek & Roman mythology, and history. In the second half of Latin 1, we will hit the road to gain perspective of life in the Roman Empire by traveling to ancient Britannia and Egypt. Lastly, students of every level of Latin will expand their English vocabulary by connecting their Latin vocabulary words to English derivatives.

**Latin 2** **1622A/1622B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Latin 1

The second year Latin student, after a review of basic grammar, will expand his/her Latin vocabulary and move into the study of more advanced grammatical constructions. This study of the language and its application to English will be incorporated into a framework of cultural topics, which include Roman government, the expansion of the Empire, Roman dining and food, entertainment and sports. The application of the Roman ideals to the development of Western Civilization will continue.

**Latin 3** **1623A/1623B****Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes**Prerequisite(s)** Latin 2

The third year Latin student will continue to develop his/her ability to use the language through the reading, comprehension and interpretation of both original Latin and modern, fabricated Latin. Stories selected for reading and vocabulary expansion include fairy tales, Harry Potter, and Aesop's fables. Original authors selected for study, discussion and interpretation include Seneca, Quintilian, Ovid, and Catullus. In conjunction with the basic functions of the language, the student will continue to develop his/her command of Latin with composition using compound sentences and primary tenses of the subjunctive. Cultural topics including Roman emperors and their reigns will provide a basis for discussion and comparison between those facets of the ancient world and modern fine arts, political theory and structure.



**Latin 4**  **1624A/1624B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 3

The fourth year student will continue to expand his/her proficiency through reading, comprehension and interpretation of Latin. Students will read Latin prose, which includes the works of Livy, Cicero, Julius Caesar, and Cornelius Nepos. In conjunction with the basic functions of the language, the student will continue to develop his/her command of Latin with composition using complex sentences and secondary tense subjunctives. Cultural topics including the legends of the founding of Rome, Roman social institutions of marriage, military service, will provide a basis for discussion and comparison between ancient world and modern equivalents. Special interest is taken in Caesar's role as biased journalist/military historian, xenophobia, Cicero's rhetorical stratagems, and ancient Greek love/hate relationship with one of their tyrant leaders of the 5th century B.C.

This course may be taken for dual credit through the University of Minnesota's College in the Schools Program (CIS). Students that are in 11th or 12th grade may receive college credit. 10th grade students would need instructor approval before enrolling in CIS.

**WEIGHTED GRADE**

**Latin 5**  **1625A/1625B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Latin 4

The fifth year student will continue to develop his/her proficiency through reading, comprehension and interpretation of original Latin. Students will read Virgil's The Aeneid. In conjunction with refining his/her skills in the basic functions of the language, the student will polish his/her command of Latin with composition in a variety of styles, employing multiple sentence structures and a variety of grammatical constructions. In addition, the course will include the study of the cultural, social and political context of the literature including, but not limited to, Roman religion, government, art, architecture, military aspects and the role of women in ancient society.

This course may be taken for dual credit through the University of Minnesota's College in the Schools Program (CIS).

**WEIGHTED GRADE**

**Mandarin Chinese 1** **1641A/1641B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

Do you want to go on an adventure through the unique Chinese culture, and taste delicious Chinese food? Do you want to learn a language through stories of Jackie Chan, Mulan, or Chinese Zodiac animals? Do you want to visit China someday, and see the famous and majestic Great Wall and Forbidden City? If so, Mandarin Chinese is for you! It's useful too - Chinese has the most first language speakers of any language, and China is increasingly important on the world stage. You will learn this fascinating language in easy steps. Read, write, speak, and think in a whole new way. Read and write in Chinese words that turn ordinary words into pieces of art. Speak in tones that add a musical touch to everyday speech.

**Mandarin Chinese 2** **1642A/1642B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Mandarin Chinese 1

Mandarin Chinese 2 will build upon the skills and knowledge learned in Mandarin Chinese 1. Students will continue to develop speaking, reading, and writing skills within the language. Engaging graphics, videos, and authentic traditional practices such as Chinese calligraphy will keep students motivated and make learning Mandarin Chinese exciting and fulfilling.

**Mandarin Chinese 3** **1643A/1643B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Mandarin Chinese 2

This course will continue to build on students' skills and knowledge from Chinese 2. To increase language proficiency, students actively engage in learning opportunities aligned to the three communicative modes (interpersonal, interpretive, and presentational) and the five goal areas: communication, cultures, connections, comparisons, and communities. Successful learning in this course will allow students to reach a level of listening, speaking, reading and writing that will allow them to successfully communicate with the language (e.g., when traveling in China).

**Mandarin Chinese 4**  **1644A/1644B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Mandarin Chinese 3

Welcome to Chinese 4! This year you will study a variety of cultural festivals and activities in China in a full-immersion setting. This will be done via the three modes of communication-presentational, interpersonal, and interpretive. By the end of Chinese IV, you will be able to read authentic texts, comprehend authentic films/video clips, write and speak in multiple tenses, and participate in discussions in Chinese.

This course may be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE**

**Spanish 1** **1631A/1631B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** None

iHola! Wouldn't it be fun to travel to Spain? Mexico? Guatemala? Argentina? Wouldn't you like to learn all about the different types of foods, holidays, and cultural differences from the 21 Spanish-speaking countries? If so, take Spanish. You will learn the basics of communicating and be able to talk about yourself and your family. You will also be able to compare your culture to the various cultures of the Spanish-speaking world. Come discover what makes the Hispanic cultures so diverse and find new ways to connect to the larger world. ¡Buen Viaje!

**Spanish 2** **1632A/1632B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 1

Spanish 2 students will expand and spiral previous knowledge into more complex structures through the study of people, activities, pastimes, daily routine, shopping, food and travel. Students will study the language and its function within these topics. Students will study comparatives, superlatives, direct object pronouns, indirect object pronouns, and the imperative, and they will have extensive opportunities to express themselves and initiate conversations in the present, present progressive and preterite tenses.

**Spanish 3** **1633A/1633B**

**Grade Level** 9-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 2

Spanish 3 will expand and spiral previous knowledge into more complex structures through the topics of friends and self, school, the world of work, life at home and personal past life and stories, health and fitness. Students will express themselves and initiate conversations. Through the function of language, students will speak, write, read and comprehend in the indicative mood with an emphasis on the present, the preterit and imperfect past, imperative, future, conditional and present perfect tenses.

**Spanish 4** **1634A/1634B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 3

Spanish 4 will expand and spiral previous knowledge through the study of topics that will include Spain, outdoor activities, the arts, friends and relationships, health, community and future plans. Students will speak, write, read and comprehend in the indicative and the subjunctive moods. In the indicative mood, emphasis will be given to the present, past, future, conditional and perfect tenses. In the subjunctive mood, students will learn present, present perfect and imperfect tenses. We explore past participles used as adjectives, adjective clauses, and elements of passive voice. In addition, students read and begin to analyze authentic literature. This course is intended for students who are seriously interested in language study. Spanish 4 places the student in an advanced learning environment with emphasis on interpersonal, presentational, and interpretive communication.

**Spanish 5**  **1635A/1635B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 4

Spanish 5 will expand and spiral previous knowledge by writing, speaking, and reading at an advanced level. Students will compare and contrast Hispanic cultures and lifestyles with American culture and lifestyles. Students will express themselves by initiating and sustaining conversations utilizing both indicative and subjunctive moods. Students will express ideas orally with accuracy and fluency. Student will read and analyze authentic literature and write compositions using advanced grammatical concepts. Course content will reflect intellectual interests shared by the students and teacher in such areas as literature, current events, the arts, history, culture and sports. Spanish 5 places the student in an environment that prepares the serious student for continued growth in preparation for further study and enjoyment. This course may be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE**

**Spanish 6**  **1636A/1636B**

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** Yes

**Prerequisite(s)** Spanish 4

Spanish 6 is a college level course taught in our high schools. It will cover an intensive grammar review, a comprehensive selection of short stories, plays and poetry written by Spanish-speaking authors, a review and enrichment of vocabulary, and an analysis of a variety of cultural aspects. This course can be taken for dual credit through UW-Oshkosh CAPP.

**WEIGHTED GRADE**

**Spanish in Healthcare** **1637A/1637B**

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Spanish 3

Spanish in Healthcare is a course designed for students interested in the medical field with an emphasis in Spanish language and Hispanic culture. Students will explore the medical field while focusing on communicative skills and engagement experiences with the local and global Spanish speaking communities. This course can be paired with a medical strand of the LAUNCH program. This course is also an elective opportunity that will aid students in completing their Wisconsin Global Scholars certificate. Students will have experiences with healthcare professionals within this course.

# NON-DEPARTMENT SPECIFIC COURSES

## AP CAPSTONE

AP Capstone is an innovative, college-level program based upon two AP offerings - AP Seminar and AP Research - that complement and enhance discipline specific AP courses.

### AP Research

7902A/7902B

**Grade Level** 11-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** Advanced Placement Seminar

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4000 - 5000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

**WEIGHTED GRADE**

### AP Seminar

7901A/7901B

**Grade Level** 10-12 **Credit/Semester** 1.0 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**WEIGHTED GRADE**

## EXPERIENTIAL LEARNING

### Career & Employment Opportunities

*(Students in this course can obtain the Employability Skills Certificate.) - Internship*

2301

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Students must be actively employed prior to the start of the term.

Learn career and life skills while you earn! Students can engage in this personalized learning, seminar course to further support the development of professional knowledge and skills which can then be applied to a real world work experience. The course affords meaningful learning through two avenues: 1) Independent Study/Personal Reflection: choosing from and then researching various career-based learning topics to a) explore self, academic learning, work, and life connections and b) gain deeper insight into and knowledge of relevant employment matters in order to further develop pivotal life skills; and, 2) Guest Instructors' learning directly from business and industry guest instructors' expertise as they present on various topics during a once a month seminar (e.g., professionalism, entrepreneurship, etc.). The course will also afford each student with opportunities to utilize technology to capture and demonstrate his/her personal growth that has occurred throughout the experience. \*NOTES: 1) The course will meet weekly for one block during each term or as scheduled; 2) Students are required to attend seminars with guest instructors. One seminar will most likely be held once per month [September, October, November, February, March, and April (dates/times to be announced)]; 3) The student a) will seek out his/her employment, b) must be employed prior to the start of the term, and c) must work a minimum of 20 hours per week. 4) The course is graded Pass/Fail.

*Students in this course can obtain the Employability Skills Certificate.*

### Mentorship

2300

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

Mentorship is an opportunity for students to investigate a career interest through coursework and on the job visitations. Students will be matched on an individual basis with an adult mentor working in the area of career interest to the student. Expectations will be developed by the student, mentor, and teacher to structure and guide the experience. This experience will require approximately 40 hours in a Community-setting outside school and be unpaid. This course is for juniors, and seniors who are highly motivated, self-directed and who have shown exceptional ability and interest in a particular career area. This half-credit course is graded pass/fail.

## Project Pursuit 8400

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** By application only. Students must submit an application for approval the semester prior to working on their "Pursuit". Once approval is granted, the time will be scheduled.

This course provides students the opportunity to develop and implement an independent study in an area of interest.

<b>Seminar &amp; Youth Apprenticeship:</b>	
<b>Architecture and Construction</b>	<b>2303C</b>
<b>Arts/AV/Technology and Communications</b>	<b>2303A</b>
<b>Business/Finance/Marketing</b>	<b>2303B</b>
<b>IT</b>	<b>2303IT</b>
<b>STEM</b>	<b>2303S</b>
<b>Transportation, Distribution, Logistics</b>	<b>2303T</b>

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** Junior/Senior standing  
Likely to graduate at the end of senior year  
Prior participation in career exploration, guidance and/or education activities which allow you to make an informed choice  
Interest in hands-on, career-based learning

WI Youth Apprenticeship Program (YA) is a rigorous one- or two-year program that combines academic and technical classroom instruction with paid work experience, allowing the student to explore a career while still in high school. Youth apprentices receive occupational-related instruction and on-the-job training as part of their regular high school schedule, and they leave high school with a state skills certificate and career-related work experience.

Those who successfully complete the YA program and graduate from high school may be eligible for advanced standing in specific technical college programs. YA students are partnered with a workplace mentor and are exposed to all facets of an industry resulting in attainment of competencies and skills set by the industry. WCTC staff provides the regional coordination for the Youth Apprenticeship programs offered in Waukesha County.

## Youth Apprenticeship 2303

**Grade Level** 11-12 **Credit/Semester** 0.5 **Repeatable** Yes **NCAA** No

**Prerequisite(s)** By application only

Youth Apprenticeship is the formalized and structured work-based program offered. Visit this [website](#) to view program areas. The youth apprenticeship program coordinates academic education in the high school with occupational instruction and paid work-based learning. Training in the workplace is by skilled mentors and is based on statewide competency standards developed by the WI Department of Workforce Development. Upon completion students can earn a Certificate of Occupational Proficiency. The course is graded Pass/Fail.

# LEADERSHIP

## Leadership Principles 8110

**Grade Level** 9-12 **Credit/Semester** 0.5 **Repeatable** No **NCAA** No

**Prerequisite(s)** None

This course will provide instruction and development in essential leadership principles to enhance and strengthen students' leadership skills and roles within their academic courses, their extracurricular activities, the community and their post-secondary pursuits.

# COURSES AT A GLANCE

When selecting a 1 credit (2 term) course, you MUST enter a course number for each term (ex. Geometry - 1807A AND 1807B).

Course numbers ending with “Alt” run on alternating days.

“+” indicates that a course is repeatable for credit.

“\*” indicates that a course has (a) prerequisite(s). Please refer to the course descriptions in the Planning Guide for more information.

“∞” indicates that a course provides an opportunity for college credit.

Course	Grade	Course#
<b>APPLIED TECHNOLOGY &amp; ENGINEERING</b>		
Architecture	9 - 12	1001
Auto Service Fundamentals A	9 - 12	1002
Auto Service Fundamentals B* ∞	10 - 12	1031
Building Const. & Basic Carpentry Thry. 1	9 - 12	1006
Building Const. & Basic Carpentry Thry. 2*	9 - 12	1008
Computer Aided Design (CAD)	9 - 12	1032
Digital Electronics/Program	9 - 12	1041
Digital Imaging I @ BCHS	9 - 12	1012
Digital Imaging II* @ BCHS	9 - 12	1007
Digital Imaging Seminar*+ @ BCHS	11 - 12	1011
Graphic Design Academy Interest	11-12	1170GDA
PLTW: Aerospace Engineering* ∞	11 - 12	2169A/2169B
PLTW: Civil Engineer Architect ∞	9 - 12	1040A/1040B
PLTW: Comp. Integrated Mfg & Auto* ∞	10 - 12	2170A/2170B
PLTW: Engineering Design & Develop* ∞	11 - 12	1039A/1039B
PLTW: Intro to Eng. Design ∞	9 - 12	1035A/1035B
PLTW: Principles of Engineering* ∞	10 - 12	1037A/1037B
Power Sys: Small Engine/Auto	9 - 12	1014
Robotics & Automation	9 - 12	2172A/2172B
Technology Assistant* (P/F, repeatable)	9 - 12	1015
Video Production @ BCHS*	9 - 12	1019
Wood Design & Production I	9 - 12	1004
Wood Design & Production II*	9 - 12	1030
Yearbook Publishing Design & Prod*+ @BCHS	9 - 12	1018A/1018B
<b>ART</b>		
Art Lab+	11 - 12	1126
AP Art & Design*+ ∞	11 - 12	1164A/1164B
AP Art History ∞	11 - 12	1160A/1160B
Art Metals I	9 - 12	1106
Art Metals II*	9 - 12	1112
Art Metals III*	9 - 12	1124
Art Seminar*+	9 - 12	1101A/1101B
Ceramics & Sculpture I	9 - 12	1102
Ceramics & Sculpture II*	9 - 12	1103
Ceramics & Sculpture III*	9 - 12	1114
Design Drawing & Color Theory* ∞	11 - 12	1170
Digital Illustration* ∞	9 - 12	1122
Digital Imaging I @ BEHS	9 - 12	1012
Digital Imaging II* @ BEHS	9 - 12	1007
Digital Imaging Seminar*+ @ BEHS	9 - 12	1011
Drawing I	9 - 12	1105
Drawing II*	9 - 12	1111
Drawing III*	9 - 12	1116
Image Editing/Photoshop ∞	11 - 12	1173
Page Layout/InDesign ∞	11 - 12	1172
Painting I	9 - 12	1107
Painting II*	9 - 12	1108
Painting III*	9 - 12	1119
Printmaking and Mixed Media I	9 - 12	1109
Printmaking and Mixed Media II*	9 - 12	1110
Printmaking and Mixed Media III*	9 - 12	1121

Course	Grade	Course#
<b>ART (continued)</b>		
Video Production @ BEHS*	9 - 12	1019
Yearbook Publishing Design & Prod*+ @BEHS	9 - 12	1118A Alt/1118B Alt
<b>BUSINESS</b>		
Business Law	10 - 12	1201
Business Leadership+	11 - 12	1234A/1234B
Business Management	10 - 12	1204
College Accounting	11 - 12	1230A/1230B
Entrepreneurship	10 - 12	1203
Financial Management & Investing ∞	11 - 12	1211
Introduction to Accounting	9 - 12	1205
Introduction to Business	9 - 12	1206
Introduction to Marketing	9 - 12	1212
Personal Finance	9 - 12	1209
Sports & Entertainment Marketing	10 - 12	1210
<b>COMPUTER SCIENCE</b>		
AP Computer Science A* ∞	9 - 12	1260A/1260B
AP Computer Science Principles* ∞	9 - 12	1261A/1261B
Cybersecurity	9 - 12	1244
Data Structures (MU ECCP)* ∞	9 - 12	87106
Emerging Trends in IT	9 - 12	1264A/1264B
Introduction to Computer Science	9 - 12	1246
Software Tools and Process (MSOE ECCP)* ∞	9 - 12	87252
Student Technology Team	9 - 12	12343A, B, C, D
Unity Game Development	9 - 12	1248
Web Design	9 - 12	1240
<b>ENGLISH</b>		
AP English Lang & Composition* ∞	11 - 12	1361A/1361B or 1361A Alt/1361B Alt
AP English Lit & Composition* ∞	11 - 12	1360A/1360B or 1360A Alt/1360B Alt
Creative Writing* ∞	11 - 12	1315
Drama as Literature*	11 - 12	1316
Dystopian & Utopian Literature*	11 - 12	1362
English 9	9	1302A/1302B
English 10*	10	1330A/1330B
English 11*	11	1333A/1333B or 1333A Alt/1333B Alt
Honors English 9	9	1303A/1303B
Honors English 10*	10	1331A/1331B or 1331A Alt/1331B Alt
Literature: Giants in Time*	11 - 12	1363
Literature in Film* ∞	11 - 12	1365
Notetaking and Study Skills	9 - 12	1208
Oral Interpretation, Acting & Directing*	11 - 12	1324
Public Speaking ∞	11 - 12	1325
Real Lives: Memoir/Autobiography*	11 - 12	1336
Senior Literature Seminar*	12	1367
Speech Communication	9 - 10	1332
Stagecraft: Introduction to Theater	9 - 12	1327
The Graphic Novel*	11 - 12	1364
Writing for College* ∞	11 - 12	1326
Writing for Publication	9 - 12	1319

Course	Grade	Course#
<b>FAMILY &amp; CONSUMER SCIENCES</b>		
Fashion Analysis	9 - 12	1503
Introduction to Elements of Design	9 - 12	1502
Principles of Interior Design*	11 - 12	1504
<b>HEALTH</b>		
Exercise Science*	10 - 12	2003
Health Education	9 - 10	1701
<b>LAUNCH STRANDS</b>		
Advanced Manufacturing Technologies	11 - 12	7800AMT
Analytics	11 - 12	7800BA
Auto, Robo, Trends IT G11	11	7800IT-11
Auto, Robo, Trends IT G12	12	7800IT-12
Business 2.0 ∞	12	7800BS2
Data Science & Intelligence for Careers	11 - 12	7800DS
Engineering Fnds Grd 11	11	7800EF-11
Engineering Fnds Grd 12	12	7800EF-12
Engineering Fnds Yr 2	12	7800EFY2
Foundations of Body Systems & Disease	11 - 12	7800FBS
Future Teachers	11 - 12	7800FT1.0
Future Teachers Yr 1 Mod	11 - 12	7800FT1.1
Future Teachers Yr 2	12	7800FT2.0
Future Teachers Yr 2 Mod	12	7800FT2.1
Global Business Grd 11	11	7800GB-11
Global Business Grd 12	12	7800GB-12Y1
Global Business - Year 2	12	7800GB-12Y2
Healthcare Solutions	11 - 12	7800HS
Law and Public Policy - Year 1	11 - 12	7800LPP
Law and Public Policy - Year 2	11 - 12	7800LPPY2
Media Solutions Grd 11	11	7800MS-11
Media Solutions Grd 12	12	7800MS-12
Medicine & Healthcare	11 - 12	7800MH
Medicine & Healthcare - Year 2	11 - 12	7800MH2
Skilled Building Trades	11 - 12	7800SBT
Spanish in Healthcare	10-12	7800SH
<b>LAUNCH INDIVIDUAL COURSE CODES</b>		
Course	Strand	Course #
Anatomy & Physiology - Tosa	BSD	7827A/7827B
Anatomy & Physiology I (UW ECCP)* ∞	MH	7838
AP Computer Science Principles - Tosa	AMT	7820A/7820B
AP English Lang & Composition* ∞	LPP	7826A/7826B
AP Psychology* ∞	FT	7805A/7805B
AP Statistics* ∞	BA	7806A/7806B
Business & Society ∞	BS2	7823
Business Strategy ∞	GB	7802A/7802B
Crime, Society and the Law	LPP	7825
Culture of Healthcare ∞	HS/MH	7814A/7814B
Current Issues	LPP	7824
Digital Imaging Seminar*	MS	7811A/7811B
Educational Inquiry 1 ∞	FT	7816A/7816B
Educational Psychology ∞	FT	7821
Emerging Trends in IT	IT	7835A/7835B
English 11	GB/MS	7812A/7812B
Future Makers Capstone - Tosa	AMT	7818A/7818B
Health and Disease - Tosa	BSD	7828A/7828B
Intro to Special Education ∞	FT	7833
Light Building Construction - Tosa	SB	7831A/7831B

Course	Grade	Course#
<b>LAUNCH COURSE CODES (continued)</b>		
Math for Data Science	DS	7830A/7830B
Math for Skilled Trades	SB	7832A/7832B
Medical Terminology	MH	7815A/7815B
<b>Course</b>	<b>Strand</b>	<b>Course #</b>
Mentorship	All	7807A/7807B
PLTW Engineering Design/Develop	EF	7810A/7810B
PLTW Medical Interventions	HS	7813A/7813B
Project Pursuit	EF/GB/ LPP/MH	8400
Python for Data Science	DS	7829A/7829B
Spanish in Healthcare	SH	7837
Instructional Design/Teaching	FT	7834
Writing for Research	EF/GB/MS	7801A/7801B
<b>MATHEMATICS</b>		
Algebra I	9 - 12	1803A/1803B
Algebra II*	9 - 12	1804A/1804B or 1804A Alt/1804B Alt
AP AB Calculus*	10 - 12	1860A/1860B
AP BC Calculus*	10 - 12	1861A/1861B
AP AB/BC Calculus* Cohort	10 - 12	1860A Cohort/ 1860B Cohort
AP Statistics*	10 - 12	1862A/1862B
Calculus III*	11 - 12	1817A/1817B
Data Analysis*	10 - 12	1815
Functions and Trigonometry*	10 - 12	1806
Geometry*	9 - 12	1807A/1807B
Honors Algebra II*	9 - 12	1805A/1805B
Honors Geometry*	9 - 12	1808A/1808B
Honors Precalculus*	10 - 12	1810A/1810B
Precalculus*	10 - 12	1809A/1809B
Statistics*	10 - 12	1811
<b>MUSIC</b>		
Chamber Choir*	10 - 12	1906A Alt/1906B Alt
Chamber Orchestra*	10 - 12	1909A Alt/1909B Alt
Concert Band*	9 - 12	1901A Alt/1901B Alt
Concert Choir* (Gr. 9 M, Gr 10-12 F)	9 - 12	1903A Alt/1903B Alt
Digital Music Musicians/Non-Musicians	9 - 12	1914
Exploring Music Theory/Composition	11 - 12	1913
Symphonic Band*	10 - 12	1907A Alt/1907B Alt
Symphony Orchestra*	9 - 12	1904A Alt/1904B Alt
Treble Choir* (F only)	9	1902A Alt/1902B Alt
Wind Ensemble*	10 - 12	1905A Alt/1905B Alt
Women's Ensemble*	10 - 12	1908A Alt/1908B Alt
<b>PHYSICAL EDUCATION</b>		
Advanced Team and Individual Sports	12	2021
Lifeguarding*+	15 yrs.	2004
Lifetime Sports*	10 - 12	2015
Outdoor Pursuits*	11 - 12	2006
Personal Fitness and Wellness*+	10 - 12	2016
PE 09	9 - 12	2001
PE Assistant @BCHS*	12	2007
Sports Officiating*	10 - 12	2020
Racquet and Team Sports*	10 - 12	2008
Ultimate Strength and Conditioning*+	10 - 12	2019
Variety Sports*	10 - 12	2013

Course	Grade	Course#
<b>SCIENCE</b>		
Anatomy & Physiology*	10 - 12	2101A/2101B
AP Biology*	10 - 12	2160A/2160B
AP Chemistry*	10 - 12	2161A/2161B
AP Environmental Science*	10 - 12	2162A/2162B
AP Physics I	10 - 12	2165A/2165B
AP Physics II: Algebra-Based	10 - 12	2166A/2166B
AP Physics C*	10 - 12	2164A/2164B
Astronomy & Meteorology	10 - 12	2114
Biology	9 - 12	2102A/2102B
Chemistry*	10 - 12	2105A/2105B
Culture of Healthcare	11 - 12	1505A/1505B
Ecology*	10 - 12	2109
Geology	10 - 12	2115
Honors Biology	9 - 12	2103A/2103B or 2103A Alt/2013B Alt
Honors Chemistry*	10 - 12	2106A/2106B
Marine Biology*	10 - 12	2104
Medical Terminology*	11 - 12	1510A/1510B
Nursing Assistant (CNA) In Person	11 - 12	2116IP
Nursing Assistant (CNA) Virtual	11 - 12	2116V
Organic Chemistry*	10 - 12	2107A/2107B
Physics	10 - 12	2111A/2111B
PLTW Biomedical Innovation*	11 - 12	2072A/2072B
PLTW Human Body Systems*	10 - 12	2168A/2168B
PLTW Medical Interventions*	10 - 12	2071A/2071B
PLTW Principles of Bio Science	9 - 12	2167A/2167B
<b>SOCIAL STUDIES</b>		
20th Century American History	10 - 12	2202A/2202B or 2202A Alt/2202B Alt
Abnormal Psychology	10 - 12	2210
AP European History	10 - 12	2260A/2260B or 2260A Alt/2260B Alt
AP Human Geography	9 - 12	2273A/2273B
AP Macro Economics	11 - 12	2261
AP Micro Economics	11 - 12	2262
AP Psychology	10 - 12	2263A/2263B or 2263A Alt/2263B Alt
AP United States History	11 - 12	2265A/2265B
AP US Government and Politics	11 - 12	2264A/2264B
<b>SOCIAL STUDIES (continued)</b>		
AP World History	9-12	2266A/2266B
Crime, Society and the Law	10 - 12	2211
Current Issues	10 - 12	2203
Economics	12	2204 or 2204 Alt
Human Geography	10	2212
Modern Society	10 - 12	2207
Principles of American Democracy	12	2208 or 2208 Alt
Psychology	10 - 12	2209
World History	9	2201A/2201B or 2201A Alt/2201B Alt

Course	Grade	Course#
<b>WORLD LANGUAGES</b>		
French 1	9 - 12	1601A/1601B
French 2*	9 - 12	1602A/1602B
French 3*	9 - 12	1603A/1603B
French 4*	10 - 12	1604A/1604B
French 5*	11 - 12	1605A/1605B/1611
German 1	9 - 12	1611A/1611B
German 2*	9 - 12	1612A/1612B
German 3*	9 - 12	1613A/1613B
German 4*	10 - 12	1614A/1614B
German 5*	11 - 12	1615A/1615B
Latin 1	9 - 12	1621A/1621B
Latin 2*	9 - 12	1622A/1622B
Latin 3*	9 - 12	1623A/1623B
Latin 4*	10 - 12	1624A/1624B
Latin 5*	11 - 12	1625A/1625B
Mandarin Chinese 1	9 - 12	1641A/1641B
Mandarin Chinese 2*	9 - 12	1642A/1642B
Mandarin Chinese 3*	9 - 12	1643A/1643B
Mandarin Chinese 4*	10 - 12	1644A/1644B
Spanish 1	9 - 12	1631A/1631B
Spanish 2*	9 - 12	1632A/1632B
Spanish 3*	9 - 12	1633A/1633B
Spanish 4*	10 - 12	1634A/1634B
Spanish 5*	11 - 12	1635A/1635B
Spanish 6*	11 - 12	1636A/1636B
Spanish in Healthcare*	10 - 12	1637A/1637B
<b>NON-DEPARTMENT SPECIFIC COURSES</b>		
<b>AP CAPSTONE</b>		
AP Research	11 - 12	7902A Alt/7902B Alt
AP Seminar	10 - 12	7901A Alt/7901B Alt
<b>EXPERIENTIAL LEARNING</b>		
Career and Employment Opportunities (CEO)+	11 - 12	2301A, B, C, D or 2301A Alt/2301B Alt
Mentorship	11 - 12	2300A, B, C, D
Project Pursuit	11 - 12	8400
Youth Apprenticeship	11 - 12	2303
YA - Architecture/Construction	11 - 12	2303C
YA - Arts/AV/Tech Comm	11 - 12	2303A
YA - Business/Finance/Marketing	11 - 12	2303B
YA - IT	11 - 12	2303IT
YA - STEM	11 - 12	2303S
YA - Transport/Distrib/Logistics	11 - 12	2303T
<b>LEADERSHIP</b>		
Leadership Principles	9 - 12	8110
<b>STUDY HALL</b>		
Study Hall (Terms 1-4)	9 - 12	8600A, 8600B, 8600C, 8600D
Study Hall Alt Days	9 - 12	8600AAlt/8600BAlt

# POLICIES

## BLOCK SCHEDULE

Classes at high school run on a four-block schedule. A four-block schedule is so named because there are four class periods a day. Class periods are approximately 90 minutes long. Each class lasts for nine to eighteen weeks. Under this structure, students earn .5 credits per a nine-week class, and one credit for a class that meets for two nine-week terms. There are some exceptions to this structure in that we continue to offer band, orchestra, and choral music throughout the year on an every-other-day basis.

## WEIGHTED GRADES

The District values academic rigor because it increases student achievement, encourages students to stretch to their potential, and contributes to effective transitioning to post-secondary institutions. The District also recognizes that a policy of adding a minor weight to a grade can appropriately motivate more students to pursue academic rigor, which is aimed at their long-term success.

A weight of 0.025 shall be added to the cumulative grade point average (GPA) for each completed half-credit within the high school resulting in a total of 0.05 additional weight per one-credit course. Courses eligible for weighting include all courses that may be taken for college credit, to include Advanced Placement courses, concurrent enrollment courses, transcribed credit courses, advanced standing courses, and courses taken through the Early College Credit Program and the Start College Now program.

## ADDING/DROPPING A COURSE

Prior to the start of a term, students may drop any course and add another course in their schedule for one or more of the following reasons:

- Medical needs
- Failure of a class
- Course is needed for graduation or post secondary prerequisite for a course
- Scheduled in an inappropriate course level
- Change in performance in current year requires change to be made in next year's schedule

If a student meets the above criteria, there is space in the class, and the change does not overload another course, then a change can be made.

## DROPPING A COURSE AFTER 3 WEEKS

Dropping any course after the three week marking period into the term to take a study hall will only be permitted if three classes are maintained on a student's schedule. This drop will result in placement into a study hall and an "F" in the course for the term. This grade will be permanently on the transcript unless the course is retaken for a higher grade.

## FULL TIME STUDENT STATUS

Per School Board policy 6112.1, a full-time student in the district shall meet the following minimum requirements:

- A high school student shall be enrolled in six credits per year
- Exception to full-time status may be allowed under certain circumstances for a student involved in, but not limited to, such programs as the following: Individualized Education Plan: Section 504 Plan.

To ensure relevance, appropriate rigor, and engagement, a full time student must be enrolled in at least three academic courses each term and have no more than one study hall.

## NCAA SCHOLARSHIP ELIGIBILITY

For any student who is planning to pursue NCAA eligibility, it is crucial that the student follows these two steps:

- Consult frequently with your school counselor regarding course selections.
- Register with the NCAA Eligibility Center by the end of your junior year. Please follow the link to the website: <https://web3.ncaa.org/ecwr3/>

## CONTROVERSIAL ISSUES POLICY 6144

Open discussion of controversial issues is the heart of the democratic process and shall be included as a part of the curriculum. Through study of controversial issues - political, economic or social, youth develop abilities of critical evaluation which are needed for responsible citizenship. The study of controversial issues should be objective and scholarly, with minimal emphasis on opinion. No political or economic system other than our own democratic system of government shall be advocated by staff.

No student shall be required to read a book or view instructional materials if his/her parent/guardian has objections for moral, religious, and/or political reasons. Adult students who object to material for moral, religious and/or political reasons shall not be required to use the materials for study purposes. Whenever possible, substitute materials shall be provided.

A faculty member, parent/guardian, student or resident may question the appropriateness of instructional materials through a process outlined in Practice Statement 6144.

## HONORS COURSES

Honors Courses are offered by the English, Mathematics and Science Departments. An honors course is a special section of an existing course that is more rigorous in content and performance expectations. Students and their parents should review the course description information carefully to see if there is a match between the demands of the course and the student's interests and abilities. Please note that there is a special drop down policy for honors courses.

**DROPPING FROM AN HONORS TO REGULAR COURSE**

Students may drop down from an honors section to a regular section of a course only during the first five days of the course or term. The student may only drop down to a regular section of the same course.

A student may only drop to a regular section after meeting with specified faculty and completing requisite paperwork. The student's grade in the non-honors class will be determined by combining the grades earned in both the honors and non-honors class.

**HONORS DIPLOMA**

The Board of Education believes in recognizing students who achieve a 3.5 grade point average and who have taken sufficient courses selected from the courses identified below. The following criteria will be utilized to grant honors diplomas to students:

1. Students must achieve a 3.5 overall grade point average by the end of the seventh semester of high school.
2. Students must earn 6 or more credits by the end of the senior year in courses selected from the following:
  - a. All honor courses
  - b. All advanced placement courses
  - c. All level 5 and 6 World Language courses and Organic Chemistry
  - d. All Dual Enrollment/Transcripted credit courses

**PASS/FAIL OPTION**

The Pass/Fail option permits senior students to select courses for a credit with a Pass/Fail grade. Courses eligible for such selection must be beyond the credits required for graduation and cannot count toward the Honors Diploma (Honors, Advanced Placement, Level 5 or 6 World Language, or Organic Chemistry). Students electing the Pass/Fail option are required to complete all of the usual coursework and must receive a course average of 70% or greater to receive the Pass grade. The Pass/Fail option must be selected before the course begins with no changes thereafter. The credit earned with the Pass/Fail option will be included in the transcript, but will not be computed in the grade point average and does not count toward the Honors Diploma. No more than a total of 1.00 credit may be earned. The Pass/Fail option encourages students to explore academic coursework they may otherwise not take.

**COURSE RETAKE**

Course Retake provides the student the opportunity to demonstrate increased mastery of the course expectations for a course previously taken. The highest course grade earned will be recorded for transcript and grade point average purposes. All other entries for the same course will be deleted from the transcript and grade point average.

**ACCELERATION**

Subject and/or whole grade acceleration information can be found in Policies 5123 and 6142.1

**TALENT DEVELOPMENT/ADVANCED LEARNERS (GIFTED AND TALENTED)**

Refer to the [Talent Development website](#) to access the Handbook and/or other resources.

**SPECIAL EDUCATION**

Special Education needs are met by the School District of Elmbrook according to the procedures established through Chapter 115 of the State Statutes and the Individuals with Disabilities Education Act (IDEA) of the Federal Statutes. If a student is determined to be a child with a disability and needs specialized instruction, an Individualized Education Plan (IEP) is developed to identify the goals, objectives, and related services the student requires. Placement is a team decision and parents are equal participants on the team.

**STUDENT NONDISCRIMINATION AND STUDENT RELIGIOUS ACCOMMODATIONS**

The Board shall include the following statement in all pupil and staff handbooks, course selection handbooks, and other published materials distributed to the public describing school activities and opportunities:

No person shall be denied admission to any public school in the School District of Elmbrook or be denied participation in, be denied the benefits of or be discriminated against in any curricular, co-curricular, pupil services, recreational or other program or activity because of the person's Sex, race, religion, color, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, learning disability, or handicap. The complaint process can be found in the practice statement attached to policy 6005-Equality of Educational Opportunity-Pupil Nondiscrimination/Anti-Harassment.



# NON-COURSE FEES

## REQUIRED REGISTRATION FEES

### **MATERIAL FEES** **\$105.00**

Material fees will help defray a portion of the cost of textbooks and other consumable supplies and materials for classroom instruction.

#### **Material Fees will be prorated as follows:**

If students enter after the First Quarter, they will pay 75%.

If students enter after the Second Quarter, they will pay 50%.

If students enter after the Third Quarter, they will pay 25%.

## USER FEES - OPTIONAL PARTICIPATION

User fees may be paid at the beginning of the year or within five days after the start of the activity.

### **Music, Drama, Clubs, Forensics, Debate (one time)** **\$60.00**

### **Athletics (one time)** **\$80.00**

## ASSESSMENT FEES - OPTIONAL PARTICIPATION

### **PSAT** **\$18.00**

10th and 11th grade; fees are subject to change.

### **AP Testing** **\$101.00**

AP test registration and payments will be handled through totalregistration.net; fees are subject to change.

## POINT OF SALE - OPTIONAL (Fees subject to change)

### **Parking Fee** **\$200.00**

\$100.00/semester: \$3.00 for daily pass

### **Padlock - Hall Locker or Gym Locker** **\$5.00**

### **Transcript Fees** **\$2.00**

### **Athletic Activity Card** **\$40.00**

Admission pass to home Athletic Events (WIAA tournaments not included)

### **Athletic Gate Prices - Students** **\$4.00/event**

### **Athletic Gate Prices - Adults** **\$5.00/event**

### **Work Permit (only if under the age of 16)** **\$10.00**

### **Non-sufficient Fund Returned Check Service Charge** **\$20.00**

## EXAMPLES OF OTHER VARIABLE FEES

Field Trips

Student Planners

Science Goggles

Instrument Rental Fees

Lost Uniform/Textbook/Student ID/Padlock/Library

Device Repair/Replacement Fee

College Credit Fees

Co-Curricular Fees

# CONTACTS

To discuss your academic and career plan, please contact your school counselor:

## **BROOKFIELD CENTRAL HIGH SCHOOL** **262.785.3910**

### **STUDENT SERVICES**

**Leah Devine**  
*A-F Students*  
devinel@elmbrookschoools.org

**Jessica Premo**  
*G-Le Students*  
premoj@elmbrookschoools.org

**Heather Lemke**  
*Li-Ri Students*  
lemkeh@elmbrookschoools.org

**Greg Groh**  
*Ro-Z Students*  
grohg@elmbrookschoools.org

**Natalie Ferschl**  
*Student Services Assistant*  
ferschl@elmbrookschoools.org

**Jennie Katrichis**  
*Psychologist*  
katrichj@elmbrookschoools.org

**Nichole Lahodik**  
*Social Worker*  
lahodik@elmbrookschoools.org

### **SCHOOL ADMINISTRATION**

**Brett Gruetzmacher**  
*Principal*  
gruetzmb@elmbrookschoools.org

**Dominic Bauer**  
*Associate Principal*  
bauerd@elmbrookschoools.org

**Carolyn Hahn**  
*Associate Principal*  
hahnc@elmbrookschoools.org

**Don Kurth**  
*Associate Principal, Athletics & Activities*  
kurthd@elmbrookschoools.org

## **BROOKFIELD EAST HIGH SCHOOL** **262-781-3500**

### **STUDENT SERVICES**

**Darby O'Connell**  
*A-F Students*  
oconneld@elmbrookschoools.org

**Matt Ische**  
*G-Le Students*  
ischem@elmbrookschoools.org

**Michelle McKenna**  
*Li-R Students*  
mckennam@elmbrookschoools.org

**Jason Lippold**  
*S-Z Students*  
lippoldj@elmbrookschoools.org

**Dionisia Kafkas**  
*Student Services Assistant*  
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**Aimee Schneidewent**  
*Psychologist*  
schneidai@elmbrookschoools.org  
262-781-3500 x1391

**Pam Brees**  
*Social Worker*  
breesp@elmbrookschoools.org  
262-781-3500 x1390

### **SCHOOL ADMINISTRATION**

**Andy Farley**  
*Principal*  
farleya@elmbrookschoools.org

**Darcie Fellmeth**  
*Associate Principal*  
fellmetd@elmbrookschoools.org

**Stephanie Hopkins**  
*Associate Principal*  
hopkinss@elmbrookschoools.org

**Ben Westphal**  
*Associate Principal, Athletics & Activities*  
westphab@elmbrookschoools.org

**MATERIALS  
FROM  
DPI FILE**



**Date:** April 17, 2023

**To:** Karrie Kozlowski, Clerk, School District of Waukesha  
Linda Boucher, Clerk, School District of Elmbrook

**From:** Kathy Fry, Secretary  
School District Boundary Appeal Board

**Subject:** School District Boundary Appeal Board Hearing, File #2023-02

A request for review of File 2023-02, a petition to detach territory from the School District of Waukesha and attach it to the School District of Elmbrook, has been filed with the Secretary of the School District Boundary Appeal Board (SDBAB). A copy is enclosed for your information. The petitioner has paid the required \$750 filing fee.

SDBAB hearings are generally held in May so that final orders may be issued by June 15. For us to try to establish hearing dates most convenient to the schedules of all participants, please inform us by **April 28** which of the following dates a representative from your district would be available: May 10, 15, 16, 17, or 24. **NOTE: At this time, we are planning to hold all meetings virtually via Microsoft Teams.**

Hearings are typically scheduled between 8:30 am and 4:00 pm. Hearings generally take between two and four hours and two or three may be scheduled on the same day. We will do our best to schedule the hearing for a day a district representative is available, but cannot guarantee that will occur. **When the hearing schedule is finalized, the district will be notified, in writing, of the date, time and location.** If no district representative is available to attend on that day, written information may be submitted.

PI 2.04, Wisconsin Administrative Code, directs that the **clerk of the school board of an affected school district** shall submit the following materials to the Secretary of the School District Boundary Appeal Board at the Department of Public Instruction (DPI):

1. A certified copy of any resolution related to any reorganization proceeding under Chapter 117, Wis. Stats. **(If a resolution has already been sent to the DPI, it is not necessary to send another copy.)**
2. Any reorganization order filed as required under sec. 117.17, Wis. Stats. **(If there is no reorganization order or a reorganization order has already been sent to the DPI, it is not necessary to provide a copy.)**
3. A copy of the notice of any school board hearing on a petition or a resolution for reorganization; transcribed minutes, transcribed stenographic record, or transcribed electronic recording of hearing; and, a correct copy of all exhibits and data submitted at the hearing. If the hearing was a joint hearing, the clerk of the school board from which said territory is proposed to be detached shall submit the information.
4. Any written statement of facts and other relevant matters relating to a proposed reorganization.

**Both districts** are also asked to provide the following two items:

5. A class schedule showing the course offerings available in the school or schools that the children of the petitioners attend or would attend. This might be a two-to-three-page summary for the elementary school – or a link to the course catalogue.
6. School district map clearly indicating the location of property or properties under appeal.

These materials and summary information prepared by the Department from district data already on file will be made available in advance of the hearing to the SDBAB panel members, the petitioners, and other district representatives.

The required materials in electronic form are needed no later than the day before the scheduled hearing. If you wish to provide materials that are not available in electronic form, please **submit eight (8) copies** at least two weeks before the scheduled hearing so we have time to mail them to the SDBAB panel members.

Please send the materials to:

Secretary, School District Boundary Appeal Board  
Department of Public Instruction  
P.O. Box 7841  
Madison, WI 53707-7841

Your timely response to this request will ensure that the panel members have sufficient time before the hearing to read and review the material. The panel will deliberate and make its decision immediately after the conclusion of the testimony and any rebuttal that is presented on the day the hearing is held.

Presentations using digital materials may also be possible if provided in advance.

Additional information about the SDBAB panel hearing process can be found at <http://dpi.wi.gov/sms/school-district-boundary-appeal-board/hearing>. If you have any questions about the hearing or the procedures, please contact me at (608) 224-5343, or via email at [Kathleen.Fry@dpi.wi.gov](mailto:Kathleen.Fry@dpi.wi.gov).

Thank you.

Kathy Fry  
School Administration Consultant  
Wisconsin Department of Public Instruction

Enclosures

cc: James Sebert, District Administrator, School District of Waukesha  
Susan Ettinger, Executive Assistant, School District of Waukesha  
Dr. Mark Hansen, District Administrator, School District of Elmbrook  
Christy Westfall, Executive Assistant, School District of Elmbrook



**Date:** April 17, 2023  
**To:** Angela Paap and Katie Valdovinos  
**From:** Kathy Fry, Secretary  
School District Boundary Appeal Board (SDBAB)  
**Subject:** Request for SDBAB Review – File #2023-02

This memo acknowledges receipt of your request for review by a panel of the School District Boundary Appeal Board (SDBAB) of File #2023-02, a petition to detach property from the School District of Waukesha. We have also received your check in the amount of \$750.00.

SDBAB hearings are generally held during May so that final orders may be issued by June 15. For us to try to accommodate your schedule, please inform us by Friday, **April 28** which of the following dates you would be available: May 10, 15, 16, 17, or 24. **NOTE: At this time, we are planning to hold all meetings virtually via Microsoft Teams.**

Hearings are typically held between 8:30 a.m. and 4:00 p.m. Hearings generally take between two and four hours and two or three may be scheduled on the same day. We will do our best to schedule the hearing for a day you are available, but cannot guarantee that will occur. **When the hearing schedule is finalized, you will be notified in writing of the date, time and location of your hearing before the SDBAB panel.** You may send a representative or written information if you will be unable to appear in person.

Enclosed is a summary of the hearing procedures. This document indicates that petitioners have the right to submit materials that will be provided to the SDBAB members and district representatives if they are submitted before the hearing. If you plan to submit such material, please email it to me no later than one day before the hearing. If the hearing takes place in Madison, you may also bring material (8 copies) on the day of the hearing. In-person presentations using digital files may also be possible if you bring your own computer to the hearing location. Additional information regarding materials and presentations will be provided when notice of the hearing date is sent.

A copy of the document describing the hearing procedures can also be found at <http://dpi.wi.gov/sms/school-district-boundary-appeal-board/hearing>. If you have any questions about the hearing or the procedures, please contact me at (608) 224-5343, or via email at [Kathleen.Fry@dpi.wi.gov](mailto:Kathleen.Fry@dpi.wi.gov). Materials may be sent to my attention at DPI, P.O. Box 7841, Madison, WI 53707-7841.

KF  
Enclosure



February 2, 2023

School District Boundary Appeal Board  
125 South Webster Street  
Madison WI 53703

Pursuant to PI 2.05(4), Wis. Admin. Code, I hereby appoint Kathy Fry secretary of the School District Boundary Appeal Board. In this capacity, Kathy Fry will serve as non-voting chair of the School District Boundary Appeal Board Panel.

Sincerely,

A handwritten signature in blue ink that reads "Jill Underly".

Jill K. Underly, PhD  
State Superintendent