

# EAST TROY

COMMUNITY SCHOOL DISTRICT

---

*Committed to the Growth & Success of Each Student, Each Year*

## HIGH SCHOOL PLANNING GUIDE 2019-2020



## Table of Contents

<b>Graduation and Admission Requirements</b> .....	4
<b>Subjects Included in GPA on Transcript</b> .....	4
<b>Permanent Record/Transcripts</b> .....	4
<b>Grade Point Average and Grading Scale</b> .....	5
<b>Course Overviews/Curriculum</b> .....	5
<b>General Information</b> .....	5
<b>Summer School</b> .....	5
<b>Course Changes</b> .....	6
<b>Advanced Placement Courses</b> .....	6
<b>Laude Recognition</b> .....	7
<b>Laude Honor Courses</b> .....	7
<b>Earning Technical College Credit</b> .....	8
<b>Early College Credit Program (ECCP) and Start College Now</b> .....	9
<b>Destinations Career Academy of Wisconsin</b> .....	9
<b>Online Learning</b> .....	9
<b>Work-Related Programs</b> .....	10
<b>Alternative Education Options</b> .....	10
<b>Course Listing</b> .....	11
<b>Wisconsin Career Clusters* and Programs of Study</b> .....	14
<b>Agriculture</b> .....	16
<b>Art</b> .....	18
<b>Business</b> .....	22
<b>Computer Science</b> .....	25
<b>English</b> .....	28
<b>Family and Consumer Science</b> .....	31
<b>Mathematics</b> .....	34
<b>Music</b> .....	37
<b>Other Electives</b> .....	39
<b>Physical Education and Health</b> .....	41
<b>Project Lead The Way</b> .....	43
<b>Science</b> .....	45
<b>Social Studies</b> .....	49
<b>Special Education</b> .....	52
<b>Technology and Engineering</b> .....	53
<b>World Language</b> .....	57



Committed to the Growth & Success of Each Student, Each Year

**EAST TROY HIGH SCHOOL**

3128 Graydon Ave, East Troy, WI 53120  
Phone: 262-642-6760 • Fax: 262-642-6776

**Kevin Kitslaar, Principal**  
kitkev@easttroy.k12.wi.us

**Stacey Kuehn, Principal**  
kuesta@easttroy.k12.wi.us

Dear Students and Families,

The East Troy High School Planning Guide contains information related to coursework, programming, and graduation requirements which serves as a guide for course selection and planning. We value all students being college and career ready, which involves career awareness and exploration coupled with academic programming. We encourage students to explore the different course options we have that align with the different career paths. As students develop their career awareness students can begin to select the course work that aligns with their career and college aspirations, with a possibility to earn college credit through taking Advanced Placement (AP) courses and transcribed courses.

As part of Academic and Career Planning (ACP), students each year develop and revise a personalized post-secondary plan through exploring interests by taking career interest surveys and exploring career information using Career Cruising. As students develop their academic plan, in collaboration with parents and counselor, students will select courses explore their career interests and develop post-secondary plans.

Courses are organized by department and career clusters are identified. There are sixteen career clusters with coursework associated with each cluster to guide course selections. To assist in career planning, information pertaining to course overviews, which outline the content of each course, can be found on [page 5](#) of this planning guide or on the [district website](#). Investing in Academic and Career Planning through a partnership with students, families, and school for each and every student, will ensure every child graduates college and career ready.

Sincerely,

Kevin Kitslaar and Stacey Kuehn

High School Principals

# Graduation and Admission Requirements

<b>East Troy High School Graduation Requirement</b>		
<ul style="list-style-type: none"> <li>• Attend high school for 4 years (or 3 1/2 years*)</li> <li>• Carry a minimum of four courses each trimester*</li> <li>• Accumulate credits as specified below.</li> <li>• Last 2.0 credits of graduation requirement must be earned at ETHS*</li> <li>• *Special permission or principal approval needed</li> </ul>		
DEPT.	CR	REQUIRED COURSES
<b>English</b>	4.0	1.0 in Freshman English 1.0 in Sophomore English
<b>Social Studies</b>	3.0	1.0 in Global Studies or AP Human Geography 1.0 in U.S. History 0.5 in American Gov't. or Comparative Political Sys. 0.5 in Economics or Economics & Entrepreneurship
<b>Science</b>	3.0	1.0 in Biology 1.0 in Physical Science
<b>Math</b>	3.0	1.0 in Algebra 1.0 in Geometry
<b>Physical Education</b>	1.5	0.5 in Fit Freshmen
<b>Health</b>	0.5	0.5 in Health
<b>Electives</b>	9.5	
<b>Total Credits</b>	24.5**	
<p><b>**CIVICS EXAM:</b> As part of WI Act 59, students graduating from a Wisconsin high school must take a civics test comprised of 100 questions that are identical to the 100 questions that may be asked of individuals applying for U.S. citizenship. Students must answer 65 out of 100 questions correctly to pass the exam. Students identified with special education services must take the exam but are not required to pass it. (Wis. Stat. sec. 118.33(1m)(a)1, Section 3266R)</p>		

<b>UW System Minimum Admission Requirements</b>
<ul style="list-style-type: none"> <li>• Meeting minimum admission criteria does not guarantee admission.</li> <li>• The University of Wisconsin System <i>requires a minimum of 17 credits</i> which must be distributed as follows:</li> </ul>
<p><b>English:</b> 4.0 credits including Composition and Literature</p> <p><b>Social Studies:</b> 3.0 credits including History</p> <p><b>Science:</b> 3.0 credits; Natural Science: lab sciences (biology, chemistry, physics) are strongly recommended and even required by some universities</p> <p><b>Math:</b> 3.0 credits including Algebra, Geometry, and higher math unit</p> <p><b>World Language:</b> Some campuses require a minimum of two credits in a single foreign language</p> <p><b>Electives:</b> In English, Social Studies, Natural Science, Math, World Language, Fine Arts, Computer Science, and other academic areas</p> <p>Each campus may specify additional credit requirements and may specify required content for all 17 credits. Check with the counseling office to verify specific requirements for the college(s) and university(ies) you are interested in attending.</p>

## Subjects Included in GPA on Transcript

**Board Policy 345.1 RULE: High School Grading System (III):** Grades and credits for courses offered during the school-day, independent of study courses approved by the high school principal within the school-day (see exceptions) are recorded on a student's permanent record for both rank and GPA.

**Exceptions:** The following courses count for credit but are not included in the GPA: Classroom Assistants/Peer Tutor, Learning Center for Credit, Technology Integration Squad, Early College Credit Program, Start College Now, Youth Apprenticeship, Work Experience or courses not taught on campus. Online coursework is approved curriculum by the School Board, therefore, is computed in the GPA.

## Permanent Record/Transcripts

**What is a permanent record?** A permanent record is maintained for each student. The record carries the student's full legal name, date of birth, dates of enrollment/withdrawal/graduation, courses taken, final grades received, credits earned, yearly/cumulative GPA.

**What is a transcript and how is it used?** A transcript is a copy of a student's permanent record and is used for post-secondary school, job, apprenticeship/scholarship applications, and military enlistment.

**What is the process for requesting a transcript?** Transcripts are requested online through a company called Parchment. The link to Parchment is located on the home page of the East Troy High School Counseling Office.

**Is there a fee for sending a transcript?** There is a small fee for each transcript that is requested. Debit and credit cards are accepted.

# Grade Point Average and Grading Scale

**Grade point average** is the total number of grade points divided by the total credits attempted. GPA is used to describe student's academic progress. East Troy High School uses an unweighted grading system with Laude Honors Recognition. Teachers may use plus (+) or minus (-); however, this does not affect the value of the grade for grade point average computation.

GR	SCALE	VALUE
A+	97 - 100	4.00
A	93 - 96	
A-	90 - 92	3.00
B+	87 - 89	
B	83 - 86	2.00
B-	80 - 82	
C+	77 - 79	1.00
C	73 - 76	
C-	70 - 72	0.00
D+	67 - 69	
D	63 - 66	
D-	60 - 62	
F	0 - 59	

Sample Trimester 1 GPA Calculation:

COURSE	GR	VALUE		CREDIT		GR PTS
Freshman English	A-	4.00	x	.50	=	2.00
Global Studies	B	3.00	x	.50	=	1.50
Algebra	A	4.00	x	.50	=	2.00
Physical Science	C+	2.00	x	.50	=	1.00
Accounting	B	3.00	x	.50	=	1.50
<b>TOTALS</b>				<b>2.50</b>		<b>8.00</b>

$$GPA = \frac{\text{Total Grade Points}}{\text{Total Credits Attempted}} = \frac{8}{2.5} = 3.200$$

## Course Overviews/Curriculum

### **CURRICULUM**

The East Troy Community School District aligns curriculum to the Wisconsin Academic Standards in all subjects. The Wisconsin Academic Standards provide transparent and comprehensive guidelines for successful learning beyond the classroom. The standards are designed to be rigorous and relevant to the real world, reflecting the knowledge and skills our learners need for success in college and careers. We use these standards as the foundation for teaching and learning which allows teachers to identify and communicate essential understandings and learning targets. The course overviews detail explicit goals for daily instruction and highlight essential skills, concepts, and knowledge to provide a clear focus for student learning and assessments. The course overviews also provide a consistent, clear understanding to parents so they are able to support their child's learning at home.

### **LOCATING COURSE OVERVIEWS**

Throughout this Planning Guide, Course Overviews are linked to online documents. Click on an underlined course title to be taken to that course's overview. Course Overviews for all elementary, middle, and high school courses are also available on the [ETCSD website](#), via Quick Links (Curriculum & Learning) on the home page.

## General Information

### **ACADEMIC LOAD**

All students are required to carry a minimum of four courses per trimester unless approved by administration.

### **INCOMPLETE COURSEWORK**

Incompletes are given when circumstances have hindered the completion of required work. Students are responsible for completing the missing work within an appropriate time frame established by the teacher(s) and/or administration and communicated to the student and counseling office.

## Summer School

### **FOR CREDIT COURSES**

Students successfully completing summer school for credit classes will have these courses credited on their record on trimester one of the following academic year.

### **CREDIT RECOVERY COURSES**

Students successfully completing summer school credit recovery classes will have these courses credited on their record on trimester one of the following academic year.

# Course Changes

## COURSE CHANGES

All Students requesting schedule changes must follow these steps:

- 1) See your counselor to request a change, complete the student portion of a “Request for Class Change” form (available in the Counseling Office) and discuss the request with your counselor.
- 2) Take the request to your teacher for his or her comments and signature.
- 3) Discuss the request with your family and have your parent/guardian sign the form before returning the form to the Counseling Office.

Administration reserves the right to deny any requests that are not in keeping with the reasons listed here: make-up a failed course, administrative recommendations, course is full, clerical error, medical reasons, computer error, prerequisite not met, or inappropriate placement.

## ADDING COURSES

Follow the procedures for course changes. The request must be received prior to the **fifth (5<sup>th</sup>) day of the trimester**. Consideration for such request will be given if: (A) the course requested is offered during a period that the student has a study hall or open period, and (B) the course being requested is not filled.

## DROPPING COURSES

Follow the procedures for course changes. Students may drop a course without denotation on their transcript prior to the **tenth (10<sup>th</sup>) day of the trimester**. Courses dropped after the 10<sup>th</sup> day and prior to the 6<sup>th</sup> week after the beginning of the trimester will be denoted on the student’s transcript as a withdrawal, “W”. Students dropping a course after this, may receive a final grade of F for the class. This failing grade will become part of the student’s permanent record.

# Advanced Placement Courses

Students have an option to take AP Exams. If the student earns a score of 3 or higher, they may receive college credit, advanced placement, or both. To receive credit, the student must request that the College Board send the official AP score report to the college. Colleges will usually notify students during the summer about any credit, placement and/or course exemptions earned. To learn more about AP scores and credit, visit the AP College Board “[How to Earn Credit for Your Scores](#)” web page.

ADVANCED PLACEMENT COURSES OFFERED	
Below are AP courses that are taught on-site by ETCSD instructors.	
<b>COMPUTER SCIENCE</b>	AP Computer Science A
	AP Computer Science Principles
<b>ENGLISH</b>	AP Language and Composition
	AP Literature and Composition
<b>MATH</b>	AP Calculus (AB)
	AP Statistics
<b>SCIENCE</b>	AP Physics 1
	AP Biology
	AP Chemistry
<b>SOCIAL STUDIES</b>	AP Human Geography
	AP Psychology
	AP US History
<b>WORLD LANGUAGE</b>	AP French Language and Culture
	AP Spanish Language and Culture

POSSIBLE COLLEGE CREDIT
College credit and/or advanced placement varies based on the college/university. For the most up-to-date AP credit policy information contact the college/university you plan to attend directly.
Helpful Links: <a href="#">UW Help-AP Exams</a>

# Laude Recognition

Students with a 3.2 GPA or better are eligible for Summa Cum Laude, Magna Cum Laude, or Cum Laude. To achieve Laude recognition, a minimum of four credits of honors coursework is required. Honors points are calculated by multiplying the students' overall GPA by the number of honors credits they have completed at the end of trimester 3 of the senior year.

		GPA								
		4	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2
<b>SUMMA CUM LAUDE:</b> Greater Than 36 Honors Points	<b>14</b>	56	54.6	53.2	51.8	50.4	49	47.6	46.2	44.8
	<b>13.5</b>	54	52.65	51.3	49.95	48.6	47.25	45.9	44.55	43.2
	<b>13</b>	52	50.7	49.4	48.1	46.8	45.5	44.2	42.9	41.6
	<b>12.5</b>	50	48.75	47.5	46.25	45	43.75	42.5	41.25	40
	<b>12</b>	48	46.8	45.6	44.4	43.2	42	40.8	39.6	38.4
	<b>11.5</b>	46	44.85	43.7	42.55	41.4	40.25	39.1	37.95	36.8
	<b>11</b>	44	42.9	41.8	40.7	39.6	38.5	37.4	36.3	35.2
	<b>10.5</b>	42	40.95	39.9	38.85	37.8	36.75	35.7	34.65	33.6
	<b>10</b>	40	39	38	37	36	35	34	33	32
	<b>9.5</b>	38	37.05	36.1	35.15	34.2	33.25	32.3	31.35	30.4
<b>MAGNA CUM LAUDE:</b> 26 to 35.2 Honors Points	<b>9</b>	36	35.1	34.2	33.3	32.4	31.5	30.6	29.7	28.8
	<b>8.5</b>	34	33.15	32.3	31.45	30.6	29.75	28.9	28.05	27.2
	<b>8</b>	32	31.2	30.4	29.6	28.8	28	27.2	26.4	25.6
	<b>7.5</b>	30	29.25	28.5	27.75	27	26.25	25.5	24.75	24
	<b>7</b>	28	27.3	26.6	25.9	25.2	24.5	23.8	23.1	22.4
	<b>6.5</b>	26	25.35	24.7	24.05	23.4	22.75	22.1	21.45	20.8
	<b>6</b>	24	23.4	22.8	22.2	21.6	21	20.4	19.8	19.2
	<b>5.5</b>	22	21.45	20.9	20.35	19.8	19.25	18.7	18.15	17.6
	<b>5</b>	20	19.5	19	18.5	18	17.5	15	16.5	16
	<b>4.5</b>	18	17.55	17.1	16.65	16.2				
<b>4</b>	16									

## Laude Honor Courses

Laude Honor Courses are noted with a "Laude Honor Course" symbol (🏆) throughout this planning guide.

### AGRICULTURE

- Agriculture Advanced Studies
- Horticulture: Soils & Plant Nutrition
- Horticulture: Greenhouse Crops

### ART

- Advanced Art
- Graphic Design II

### BUSINESS

- Accounting Principles
- Advanced Accounting
- Advanced Microsoft Office

### COMPUTER SCIENCE

- AP Computer Science A
- AP Computer Science Principles
- Intro to Prog. & Data Concepts
- Programming with C++

### ENGLISH

- AP Language and Composition
- AP Literature and Composition
- Formal Composition
- Novel

### FAMILY AND CONSUMER

- Food Services II

### MATH

- AP Calculus
- AP Statistics
- Pre-Calculus
- Statistics
- Trigonometry

### MUSIC

- Camerata Choir\*
- Symphonic Band\*

### SCIENCE

- Accelerated Chemistry
- AP Biology
- AP Chemistry
- AP Physics 1
- Physics

### SOCIAL STUDIES

- AP Human Geography
- AP Psychology
- AP US History
- Comparative Political Systems
- Current Issues

### TECHNOLOGY AND ENGINEERING

- Drafting: CAD2 - 3D
- Metals: Advanced
- Woods: Furniture & Cabinet Const.


### WORLD LANGUAGE

- French (Levels III, IV, and AP)
- Spanish (Levels III, IV, and AP)

\*Junior/senior year honors level with one year of previous coursework required.



## Earning Technical College Credit

The State of Wisconsin has an agreement with Wisconsin Technical Colleges that makes it possible for a student to receive credit at **Gateway Technical College** or any Wisconsin Technical College with **like courses**, toward an associate degree for courses taken while in high school. East Troy students can earn dual credit through Transcribed Credit courses or Advanced Standing courses. Courses are listed below and are identified by the Gateway symbol (  ) throughout this guide. **All courses listed are subject to change.** For more information go to <http://www.gtc.edu>.

### TRANSCRIPTED COURSES

Course is taught by a high school instructor who meets the technical college dual credit instructor certification requirements, holds a current DPI license in a related area or relevant work experience, and has been granted WTCS articulation certification. Upon successful completion of course, grades are posted to an official technical college transcript and tabulated in the student's technical college GPA. Students earn technical college credit and high school credit simultaneously.

	<b>EAST TROY</b>	<b>GATEWAY</b>
AG (AGRICULTURE)	Horticulture: Soils and Plant Nutrition	Soils & Plant Nutrition <b>AND</b> Plants, Pests & Beneficials
	Horticulture: Greenhouse Crops	Greenhouse Crops
	Landscape Design, Installation, & Maintenance	Landscape Design, Installation, & Maintenance
BUSINESS	Accounting Principles	Accounting Principles
	Advanced Accounting	Payroll Accounting <b>AND</b> Accounting Software Apps
	Business Law	Business Law
	Introduction to Business	Introduction to Business
	Marketing Principles	Marketing Principles
	Microsoft Office Applications	Computers for Professionals
	Personal Finance	Personal Financial Planning
COMPUTER SCIENCE	AP Computer Science A	AP Computer Science A-JAVA
	Intro to Programming and Database Concepts	Intro to Programming and Database Concepts
	IT Essentials	IT Essentials
ENGLISH	Mass Communications	Speaking Principles
	Technical and Career Writing	Writing Principles
FACS	Principles of Hospitality	Principles of Hospitality
	Introduction to Service in the Hospitality Industry	Introduction to Service
	Intro to Managing Service in the Hospitality Industry	Introduction to Managing Service
MATH	Applied Math I and II	Applied Math I and II
PLTW*	Intro to Engineering Design (IED)	*Students have the option to complete an end-of-course assessment where technical college credit may be granted.
	Principles of Engineering (POE)	
	Digital Electronics (DE)	
TECH/ENG	CAP/Robotics & FMS	Computer Assisted Programming/Robotics & FMS
	Computer Assisted Programming/Robotics & FMS	Computer Assisted Programming/Robotics & FMS
	Drafting: CAD1-2D	Welding/Print reading and Fabrication
	Metals: Advanced	Introduction to Welding

### ADVANCED STANDING COURSES

Course is taught by a high school teacher who holds a current DPI license in the related area of instruction. The student must meet all conditions of the articulation agreement AND earn a minimum grade of "B" in the high school course in order to be eligible for advanced standing credit. Technical college credits are awarded; however, technical college grades are not given for these courses.

	<b>EAST TROY</b>	<b>GATEWAY</b>
BUSINESS	Advanced Microsoft Office	MS Access 2 <b>AND</b> MS Excel 2 <b>AND</b> MS PowerPoint 2
FACS	Family, Foods, & Society <b>AND</b> Food Service 1	Culinary Skills 1
WORLD	Spanish 2 OR Spanish 3 OR Spanish 4	Spanish 2



# Early College Credit Program (ECCP) and Start College Now

Students in grades 9-12 may attend an institution within the UW System, a tribally controlled college, or a private, nonprofit institution of higher education located in Wisconsin for the purpose of taking one or more courses. Students must submit completed Early College Credit Program (ECCP) applications to the school counselor by October 1 for the spring semester of the college/university and by March 1 for the fall semester of the college/university. Interested students should contact their high school counselor for answers to their specific questions about ECCP or for information concerning the campus they are considering.

Students in grades 11-12 may attend a technical college by completing the Start College Now application with student/parent/guardian signatures no later than March 1 for fall semester of the technical college and October 1 for spring semester of the technical college to their school counselor. Interested students should contact their high school counselor for answers to their specific questions about Start College Now.

Note: Early College Credit Program and Start College Now are not included in calculating GPA or class rank.

## Destinations Career Academy of Wisconsin

Destinations pre-apprenticeship program prepares students for future apprenticeship training after graduation to become journeymen operating engineers, who may pursue careers as heavy equipment operators, mechanics, surveyors, and more.



The program offers opportunities to (1) earn hours toward an operating engineer journeyman's license in heavy machinery, applied after acceptance into IUOE's postsecondary apprenticeship program, (2) earn tuition-free college credit from Fox Valley Technical College while still in high school (3) attend courses normally taken as an apprentice (4) explore courses focused on construction. Below are courses part of the Operating Engineers Pre-Apprenticeship Program.

<b>Basic Maintenance</b>	Instructs students in the basics of maintenance of heavy equipment. Students will learn about engines, hydraulic systems, powertrain systems, lubricants and electrical systems. They will also be taught preventative maintenance, how to use parts and technical manuals, shop safety and tools.
<b>Basic Grade</b>	Students will learn how to use concepts and mathematical calculations with planning sheets to better familiarize themselves with the construction process.
<b>Operating Engineers Intro to Basic Equipment</b>	Introduces students to heavy equipment used in the construction industry. Students will also be instructed on basic safety, maintenance, and communication methods that operating engineers may be exposed to.

## Online Learning

ETHS provides students in grades 9-12 with a variety of online learning opportunities that can take place during the regular school day or beyond the school day through School Board approved online vendors and in-district staff developed courses. Several courses offered are additional courses that are not currently offered on-site. These courses include academic, elective, and credit recovery opportunities. Available courses are on a rotation. See the Wisconsin Virtual Academy's\* website for courses offered. The number of seats available each year will be based on district budget allocations. Students interested in these opportunities should discuss this with their counselor during the regular course selection process or at least 2 months prior to wanting to begin taking a course. Students and parents should review board policy regarding issues related to credit and GPA as it relates to these courses. Students need to complete a contract if they are interested in an online course per Board Policy 363.5. The contract must be returned to the Counseling Office for approval by counselor and building administrator.

\*Check out the [Wisconsin Virtual Academy's](#) website for current courses offered.

## Work-Related Programs

East Troy High School students have many opportunities to learn about the world of work. In fact, the majority of high school students work sometime during their high school years. Students who participate in school-supervised work-based learning have additional opportunities to learn employability skills and, with many programs, occupational skills related to their high school courses. School-supervised work-based learning reinforces for students the connection between work and school, provides a chance for meaningful contact with adults/mentors, improves their chances for successful employment as young adults, and helps solidify career interests. For more information, call the high school at 642-6760 to contact the School-to- Work Coordinator. NOTE: Youth Apprenticeship and Work Experience are not included in calculating GPA or class rank.

CHARACTERISTICS	YOUTH APPRENTICESHIP	WORK EXPERIENCE
<b>Paid/Unpaid</b>	Paid Work Experience	Paid/Unpaid Work Experience
<b>Related Classroom Instruction</b>	State Required Competencies	Local Competencies
<b>Supervision</b>	Youth Apprenticeship Coordinator	Vocationally Certified Teacher
<b>State Certificate</b>	Yes	No
<b>High School Credit</b>	Yes	Yes
<b>Required Work Hours</b>	450/900	Individualized
<b>Administered By</b>	Governor's Work-Based Learning Board	Local School District
<b>Typical Time to Complete</b>	1 or 2 years (junior and/or senior year)	Trimester or year long
<b>Content Areas</b>	Drafting & Design (Architecture, Engineering, or Mechanical Finance), Health Services, Hospitality, Lodging and Tourism, Manufacturing, Information Technology: Computer Science, Production Agriculture (Animal or Soils and Crops), Welding	Any content area

## Alternative Education Options

The following programs are alternative education options for students. These programs are available to help meet the varied needs of students in an environment where they can experience success. There are different eligibility criteria for each program. Please contact your student's counselor for more information.

PROGRAM	DESCRIPTION
<b>East Troy Alternative Learning Program (ETAL)</b>	This program is available for students who are credit deficient in the core academic areas. The focus of the program is helping students successfully earn credits and complete their high school diploma. Students will complete coursework in a smaller setting with a modified daily schedule. Staff will work with students using a variety of instructional materials and approaches including: the existing high school curriculum, hands-on learning, and appropriate instructional technology. Students attending ETAL continue to take some courses at East Troy High School, have the opportunity to access school services and participate in co-curricular activities. Parents and staff can refer a student to be considered for the program. Students may be assessed a small fee for materials/supplies
<b>GPS</b>	GPS is designed to serve students who will be completing 24.5 credits. Students participate in a two-year, 21 consecutive month program. When complete, the student will earn a Certificate of Occupational Proficiency in the Manufacturing Youth Apprenticeship, articulated credits from the Wisconsin Technical College System, and a High School Diploma. Students who participate in the program attend class daily at a partner business location with the opportunity to be employed by a partner business. The partnership with the business allows for students to make connections between what they learn in class and the development of skills that will help them beyond high school. Students should see their counselor for more information.
<b>Adult High School Program (AHS)</b>	The Adult High School Program at Gateway Technical College is available for students who are at least 17 years old and who meet the Wisconsin State definition of a Student At Risk. Wisconsin Act 39 allows East Troy High School to contract with Gateway Technical College for course work taken there. The Adult High School diploma is 17 credits. Courses are offered during the day and evening. Passing grades and regular attendance are required to continue the contract for this program. Some of the credits that students have earned at East Troy High School transfer and count toward the AHS diploma.

# Course Listing

Course Name	# of Tri	Credit	Prerequisites
<b>Agriculture</b>			
Agriculture Advanced Studies	1	0.5	Six ag courses and consent
Agriculture Leadership	1	0.5	At least one ag course
Agriculture Marketing for Profit	1	0.5	At least one ag course
Animal Science (New!)	1	0.5	
Botany	1	0.5	
Conservation & Forestry	1	0.5	
Exploring Agriculture	1	0.5	
Horticulture: Greenhouse Crops	1	0.5	
Horticulture: Soils & Plant Nutrition	1	0.5	
Landscape Design, Install & Maintenance	1	0.5	
Pets and Production Animals	1	0.5	
Wildlife Management	1	0.5	Any ag course or consent
<b>Art</b>			
Advanced Art	1	0.5	Six art courses
Art Foundations	1	0.5	
Basic Art	1	0.5	
Ceramics	1	0.5	Craft Survey
Craft Survey	1	0.5	Basic Art or Art Foundations
Fine Art Survey	1	0.5	Basic Art or Art Foundations
Graphic Design I	1	0.5	
Graphic Design II	1	0.5	Graphic Design 1 or Communication Technology
Illustration Media Concepts	1	0.5	Basic Art or Art Foundations
Painting	1	0.5	Fine Art Survey
Sculpture	1	0.5	Fine Art Survey
<b>Business</b>			
Accounting Principles	2	1.0	
Advanced Accounting	2	1.0	Accounting Principles
Advanced Microsoft Office	1	0.5	Microsoft Office Applications
Business Law	1	0.5	
Introduction to Business	1	0.5	
Marketing Principles (New!)	1	0.5	
Microsoft Office Applications	1	0.5	
Personal Finance	1	0.5	
Web Page Design	1	0.5	
<b>Computer Science</b>			
AP Computer Science A	2	1.0	Programming with Java
AP Computer Science Principles	2	1.0	Algebra
Beginning Programming	1	0.5	Algebra
Intro to Programming & Data Concepts	1	0.5	Beginning Programming or AP Computer Science Principles
IT Essentials	2	1.0	Beginning Programming or AP Computer Science Principles
Programming with C++	1	0.5	Beginning Programming or AP Computer Science Principles
Programming with Java	1	0.5	Beginning Programming or AP Computer Science Principles
Technical Assistant	1	0.5	Approved application and consent
<b>English</b>			
Accelerated Freshman English	2	1.0	8 <sup>th</sup> grade recommendation & placement scores
Accelerated Sophomore English	2	1.0	Accelerated Freshman English or recommendation
AP Language and Composition	2	1.0	Department Consent
AP Literature and Composition	2	1.0	Department Consent
Contemporary Literature	1	0.5	Freshman English
Creative Writing	1	0.5	Sophomore English
Formal Composition	1	0.5	Sophomore English
Freshman English	2	1.0	
Junior English	2	1.0	Sophomore English
Mass Communication	1	0.5	Freshman English
Novel	1	0.5	Sophomore English or Department Consent
Sophomore English	2	1.0	Freshman English
Technical & Career Writing	1	0.5	Freshman English

Course Name	# of Tri	Credit	Prerequisites
<b>Family and Consumer Science</b>			
Certified Nursing Assistant (CNA)	1	0.75	
Family, Food, and Society	1	0.5	
Fashion Marketing (Future Offering)	1	0.5	
Food Services I	1	0.5	
Food Services II	1	0.5	Food Services I
Housing, Interiors and Furnishings (Future Offering)	1	0.5	
Independent Living (Future Offering)	1	0.5	
Introduction to Child Care	1	0.5	
Introduction to Health Careers	1	0.5	
Intro to Managing Service in the Hospitality Industry (New!)	1	0.5	Intro to Service in the Hospitality Industry
Intro to Service in the Hospitality Industry (New!)	1	0.5	Principals of Hospitality
Job Skills and Career Exploration	1	0.5	
Principals of Hospitality (New!)	1	0.5	
<b>Math</b>			
Algebra	2	1.0	
Algebra 1A and 1 B	4	2.0	Staff recommendation
Algebra 2	2	1.0	Geometry
AP Calculus	2	1.0	Pre-Calculus
AP Statistics	2	1.0	Algebra 2
Digital Electronics (PLTW)	2	1.0	IED or POE
Geometry	2	1.0	Algebra or Algebra 1B
Applied Math	2	1.0	Geometry
Pre-Calculus	2	1.0	Algebra 2
Statistics	1	0.5	Algebra 2
Trigonometry	1	0.5	Algebra 2
<b>Music</b>			
Camerata (Advanced Choir)	3	1.5	Concert Choir or consent
Concert Band	3	1.5	Auditions and/or consent
Concert Choir	3	1.5	
Jazz Ensemble	3	1.0	Concert or Symphonic Band or consent
Music Survey	1	0.5	
Music Theory	1	0.5	
Symphonic Band	3	1.5	Auditions and/or consent
<b>Physical Education</b>			
Adventure in Fitness	1	0.5	Fit Freshman
Fit Freshman	1	0.5	
Fitness for Life	1	0.5	Fit Freshman or consent
Hand Me Fitness	1	0.5	Fit Freshman or consent
Have a Ball with Fitness	1	0.5	Fit Freshman or consent
Health	1	0.5	
Weight For Me 1	1	0.5	Fit Freshman
Weight For Me 2	1	0.5	Weight For Me 1
<b>Science</b>			
Accelerated Biology	2	1.0	8 <sup>th</sup> grade recommendation
Accelerated Chemistry	2	1.0	Biology & Algebra
Anatomy and Physiology	1	0.5	Biology, Chemistry, and Algebra
Animal Science (New!)	1	0.5	Animal Science (New!)
Applied Engineering in the Fab Lab	1	0.5	How to Make Almost Anything in Fab Lab
AP Biology	2	1.0	Biology & Chemistry
AP Chemistry	2	1.0	Chemistry
AP Physics 1	2	1.0	Biology, Chemistry, & higher math
Biology	2	1.0	
Botany	1	0.5	
Chemistry	2	1.0	Algebra or Biology & consent
Ecology	1	0.5	Biology or Accelerate Biology
Electronics	1	0.5	Algebra
Forensic Science	1	0.5	Biology credit & Physical Science credit
Introduction to Astronomy	1	0.5	Biology credit & Physical Science credit
Physical Science	2	1.0	Algebra or Biology & recommendation
Physics	2	1.0	Algebra
Principles of Engineering (POE) (PLTW)	2	1.0	IED or Algebra, Geometry, & consent

Course Name	# of Tri	Credit	Prerequisites
<b>Social Studies</b>			
American Government	1	0.5	One social studies credit
AP Human Geography	2	1.0	Recommendation or consent
AP Psychology	2	1.0	
AP United States History	2	1.0	Global Studies or AP Human Geo or consent
Comparative Political Systems	1	0.5	One social studies credit
Current Issues	1	0.5	US History or consent
Economics	1	0.5	
Economics and Entrepreneurship	1	0.5	
Global Studies	2	1.0	
Sociology	1	0.5	One social studies credit
United States History	2	1.0	
Wisconsin History	1	0.5	US History
<b>Technology and Engineering</b>			
Communication Technology	1	0.5	
Computer Assisted Programming/Robotics & FMS	1	0.5	
Construction: Materials & Processes	1	0.5	
Construction Production	2	1.0	
Design Thinking in the Fab Lab	1	0.5	How to Make Almost Anything in the Fab Lab
Drafting: Architectural	1	0.5	
Drafting: Architectural Design	1	0.5	Drafting: Architectural or consent
Drafting: CAD1 - 2D	1	0.5	
Drafting: CAD2 - 3D	1	0.5	
How to Make Almost Anything in Fab Lab	1	0.5	
Intro to Engineering Design (IED) (PLTW)	2	1.0	
Metals: Advanced	1	0.5	Metals: Materials and Processes
Metals: Materials and Processes	1	0.5	
Small Power Equipment	1	0.5	
Woods: Advanced	1	0.5	Woods: Furniture & Cabinet Construction
Woods: Furniture & Cabinet Construction	1	0.5	Construction: Materials & Processes
<b>World Languages</b>			
AP French Language and Culture	2	1.0	French IV
AP Spanish Language and Culture	2	1.0	Spanish IV
French I	2	1.0	
French II	2	1.0	French I
French III	2	1.0	French II
French IV	2	1.0	French III
Spanish I	2	1.0	
Spanish II	2	1.0	Spanish I
Spanish III	2	1.0	Spanish II
Spanish IV	2	1.0	Spanish III
<b>Other Electives</b>			
Advanced Yearbook Production	1	0.5	Yearbook Production
College Preparation Study Skills	1	0.5	
Learning Center for Credit	1	0.5	Staff recommendation
Peer Tutoring	1	0.5	
Technology Integration Squad	1	0.5	Approved application
Work Experience	1	0.5	
Yearbook Production	1	0.5	Freshman English
Youth Apprenticeship	1	0.5	Coursework & approved application
<b>Special Education</b>			
*See IEP case manager or counselor for specific course information			

# Wisconsin Career Clusters\* and Programs of Study








\*The Career Clusters logo and its brand extensions are the property of the National Career Technical Education Foundation, as managed by NASDCTE.

In order to maximize our students' efforts in post-secondary planning in career and colleges, East Troy High School students use Career Cruising. As part of Academic and Career Planning (ACP) students use Career Cruising to create a post-secondary plan. Through the Career Cruising program, the students can explore careers in the 16 different career clusters and colleges that support their post-secondary plans they develop over the years at East Troy High School.










The National Career Clusters® Framework website (<https://careertech.org/career-clusters>) is another great career tool for students. Students can use this website to find classes at East Troy High School that will help them gain knowledge for the occupation they are interested in pursuing after high school. East Troy High School teachers worked to create a sequence of courses students should take in high school to prepare them for specific careers.

Career clusters link what students learn in school with the knowledge and skills they need for success in college and careers. Career clusters identify pathways from secondary school to two and four-year colleges, graduate school, and the workplace. This connection to future goals motivates students to work harder and enroll in more rigorous courses.

The following section highlights the 16 different career clusters along with various pathways that exist within these clusters. Career opportunities are listed to provide students with an idea of careers they may wish to pursue in any given Career Cluster.

 <b>Agriculture, Food &amp; Natural Resources</b>	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.		
<b>Food Products &amp; Processing Systems</b> <ul style="list-style-type: none"> <li>• Agricultural Engineers</li> <li>• Agricultural Graders &amp; Sorters</li> <li>• Agricultural Inspectors</li> </ul> <b>Plant Systems</b> <ul style="list-style-type: none"> <li>• Biological Technicians</li> <li>• Foresters</li> <li>• Horticulturists</li> </ul>	<b>Animal Systems</b> <ul style="list-style-type: none"> <li>• Agricultural Workers</li> <li>• Kennel Owners</li> <li>• Veterinarians</li> </ul> <b>Power, Structural &amp; Technical Systems</b> <ul style="list-style-type: none"> <li>• Farm Equipment Technicians</li> <li>• Water &amp; Wastewater Treatment Plant Operators</li> </ul>	<b>Natural Resource Systems</b> <ul style="list-style-type: none"> <li>• Agronomists</li> <li>• Fish Hatchery Managers</li> <li>• Geologists</li> </ul> <b>Environmental Service Systems</b> <ul style="list-style-type: none"> <li>• Conservation Wardens</li> <li>• Environmental Engineers</li> <li>• Hydrologists</li> </ul>	<b>Agribusiness</b> <ul style="list-style-type: none"> <li>• Dairy Farmers</li> <li>• Farm Product Purchasing Agents</li> <li>• Fishers</li> </ul>
 <b>Architecture &amp; Construction</b>	Careers in designing, planning, managing, building and maintaining the built environment.		
<b>Design and Pre-Construction</b> <ul style="list-style-type: none"> <li>• Architects</li> <li>• Electrical Engineers</li> <li>• Interior Designers</li> </ul>	<b>Construction</b> <ul style="list-style-type: none"> <li>• Bricklayers</li> <li>• Tile Setters</li> </ul>	<b>Maintenance and Operations</b> <ul style="list-style-type: none"> <li>• Air Conditioning Technicians</li> <li>• Construction Workers</li> <li>• Furnace Installer</li> </ul>	
 <b>Arts, A/V Technology &amp; Communications</b>	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.		
<b>Audio &amp; Video Technologies</b> <ul style="list-style-type: none"> <li>• Animators</li> <li>• Art Directors</li> <li>• Cinematographers</li> </ul> <b>Printing Technologies</b> <ul style="list-style-type: none"> <li>• Desktop Publishers</li> <li>• Sign designers</li> </ul>	<b>Visual Arts</b> <ul style="list-style-type: none"> <li>• Art Specialists</li> <li>• Illustrators</li> <li>• Custom Designers/Decorators</li> </ul> <b>Performing Arts</b> <ul style="list-style-type: none"> <li>• Actors &amp; Actresses</li> <li>• Dancers</li> <li>• Musicians</li> </ul>	<b>Journalism &amp; Broadcasting</b> <ul style="list-style-type: none"> <li>• Disc Jockeys</li> <li>• Journalists</li> <li>• Reporters</li> </ul> <b>Telecommunications Technologies</b> <ul style="list-style-type: none"> <li>• Electrical Line Maintainers</li> <li>• Telephone Installation Technicians</li> </ul>	
 <b>Business Management &amp; Administration</b>	Business Management and Administration careers encompass planning organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector.		
<b>General Management</b> <ul style="list-style-type: none"> <li>• Business Analyst</li> <li>• Store Manager</li> <li>• Cinematographers</li> </ul> <b>Business Info Management</b> <ul style="list-style-type: none"> <li>• Accountants</li> <li>• Financial Analysts</li> </ul>	<b>Human Resources Management</b> <ul style="list-style-type: none"> <li>• Compensation &amp; Benefits Managers</li> <li>• Human Resources Clerk</li> <li>• Human Resources Managers</li> </ul>	<b>Operations Management</b> <ul style="list-style-type: none"> <li>• Facilities Manager</li> <li>• Employment Programs Analyst</li> <li>• Production Manager</li> </ul>	<b>Administration Support</b> <ul style="list-style-type: none"> <li>• Administrative Assistants</li> <li>• Hospital Admitting Clerks</li> <li>• Receptionists</li> </ul>
 <b>Education &amp; Training</b>	Planning, managing and providing education and training services, and related learning support services.		
<b>Administration &amp; Administrative Support</b> <ul style="list-style-type: none"> <li>• Apprenticeship Consultants</li> <li>• Instructional Coordinators</li> <li>• Librarians</li> </ul>	<b>Professional Support Services</b> <ul style="list-style-type: none"> <li>• Psychologists</li> <li>• School Counselors</li> <li>• Speech-Language Pathologists</li> </ul>	<b>Teaching &amp; Training</b> <ul style="list-style-type: none"> <li>• Child Care Assistants</li> <li>• Postsecondary Teachers</li> <li>• Vocational Teachers</li> </ul>	
 <b>Finance</b>	Planning, services for financial and investment planning, banking, insurance, and business financial management.		
<b>Accounting</b> <ul style="list-style-type: none"> <li>• Accounting Manager</li> <li>• Data Entry Clerk</li> <li>• Tax Preparer</li> </ul> <b>Business Finance</b> <ul style="list-style-type: none"> <li>• Business and Industry Consultants</li> <li>• Financial Analysts</li> </ul>	<b>Banking Services</b> <ul style="list-style-type: none"> <li>• Financial Counselors</li> <li>• Financial Institution Managers</li> <li>• Loan Officers</li> </ul>	<b>Insurance Services</b> <ul style="list-style-type: none"> <li>• Claim Adjusters</li> <li>• Insurance Agents</li> <li>• Insurance Underwriters</li> </ul>	<b>Securities and Investments</b> <ul style="list-style-type: none"> <li>• Compliance Officer</li> <li>• Financial Planner</li> <li>• Securities Analysts</li> </ul>
 <b>Government &amp; Public Administration</b>	Executing governmental functions to include Governance: National Security; Foreign Security; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.		
<b>Governance</b> <ul style="list-style-type: none"> <li>• Apprenticeship Consultants</li> <li>• Job Analysts</li> <li>• Postal clerks</li> </ul> <b>National Security</b> <ul style="list-style-type: none"> <li>• Armored Assault Vehicle Officers</li> <li>• Artillery &amp; Missile Officers</li> <li>• Infantry Forces</li> </ul>	<b>Foreign Service</b> <ul style="list-style-type: none"> <li>• Peace Corps Volunteer</li> <li>• Translators and Interpreters</li> </ul> <b>Regulation</b> <ul style="list-style-type: none"> <li>• Building Inspectors</li> <li>• Occupational Health &amp; Safety Specialists</li> <li>• Transportation Inspectors</li> </ul>	<b>Planning</b> <ul style="list-style-type: none"> <li>• Urban Planners</li> </ul> <b>Revenue &amp; Taxation</b> <ul style="list-style-type: none"> <li>• Accountants</li> <li>• Auditors</li> <li>• Lawyers</li> </ul>	<b>Public Management &amp; Administration</b> <ul style="list-style-type: none"> <li>• Association Executives</li> <li>• City Managers</li> <li>• Public Utilities Managers</li> </ul>



 <b>Health Science</b>	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.		
<b>Therapeutic Services</b> <ul style="list-style-type: none"> <li>Anesthesiologists</li> <li>Medical Assistants</li> <li>Nurse Practitioners</li> </ul>	<b>Diagnostic Services</b> <ul style="list-style-type: none"> <li>Cardiovascular Technologists</li> <li>Medical Laboratory Technicians</li> </ul> <b>Health Informatics</b> <ul style="list-style-type: none"> <li>Hospital Admitting Clerks</li> <li>Medical Records Technicians</li> </ul>	<b>Support Services</b> <ul style="list-style-type: none"> <li>Biomedical Engineers</li> <li>Laboratory Equipment Preparers</li> </ul>	<b>Biotechnology Research &amp; Development</b> <ul style="list-style-type: none"> <li>Geneticists</li> <li>Medical Researchers</li> <li>Pathologist</li> </ul>
 <b>Hospitality &amp; Tourism</b>	Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.		
<b>Restaurant, Food &amp; Beverage Service</b> <ul style="list-style-type: none"> <li>Caterers</li> <li>Cooks &amp; Chefs</li> <li>Waiters &amp; Waitresses</li> </ul>	<b>Lodging</b> <ul style="list-style-type: none"> <li>Hotel/Motel Managers</li> <li>Concierge</li> <li>Custodian</li> </ul>	<b>Travel &amp; Tourism</b> <ul style="list-style-type: none"> <li>Conference Planners</li> <li>Guides</li> <li>Translators/Interpreters</li> </ul>	<b>Recreation, Attraction &amp; Amusement</b> <ul style="list-style-type: none"> <li>Recreations Directors</li> <li>Theater Managers</li> <li>Curators</li> </ul>
 <b>Human Services</b>	Preparing individuals for employment in career pathways that relate to families and human needs.		
<b>Early Childhood Development &amp; Services</b> <ul style="list-style-type: none"> <li>Childcare Assistants</li> <li>Preschool Teachers</li> </ul>	<b>Counseling &amp; Mental Health</b> <ul style="list-style-type: none"> <li>Psychologists</li> <li>School Counselors</li> <li>Gerontologists</li> </ul>	<b>Family &amp; Community Services</b> <ul style="list-style-type: none"> <li>Dietitians</li> <li>Social Workers</li> </ul> <b>Personal Care Services</b> <ul style="list-style-type: none"> <li>Aerobics Instructors</li> <li>Cosmetologists</li> </ul>	<b>Consumer Services</b> <ul style="list-style-type: none"> <li>Customer Services Representatives</li> <li>Financial Counselors</li> </ul>
 <b>Information Technology</b>	Building linkages in IT occupations framework: for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services .		
<b>Network Systems</b> <ul style="list-style-type: none"> <li>Computer Network Coordinators</li> <li>Computer Systems Analysts</li> <li>Data Communication Analysts</li> </ul>	<b>Programming &amp; Software Engineering</b> <ul style="list-style-type: none"> <li>Computers Programmers</li> <li>Software Engineers</li> <li>Video Game Designers</li> </ul>	<b>Web &amp; Digital Communications</b> <ul style="list-style-type: none"> <li>Animators</li> <li>Webmasters</li> <li>Illustrators</li> </ul>	<b>Information Support &amp; Services</b> <ul style="list-style-type: none"> <li>Computer Engineers</li> <li>Computer Security Specialists</li> <li>Database Administrators</li> </ul>
 <b>Law, Public Safety, Corrections &amp; Security</b>	Planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support services.		
<b>Corrections Services</b> <ul style="list-style-type: none"> <li>Correctional Officers &amp; Supervisors</li> <li>Probation &amp; Parole Officers</li> </ul> <b>Law Enforcement Services</b> <ul style="list-style-type: none"> <li>FBI Agents</li> <li>Forensic Science Technicians</li> <li>Police Officers</li> </ul>	<b>Security &amp; Protective Services</b> <ul style="list-style-type: none"> <li>Crossing Guards</li> <li>Security Guards</li> <li>Private Detectives</li> </ul>	<b>Emergency &amp; Fire Management Services</b> <ul style="list-style-type: none"> <li>Dispatchers</li> <li>Emergency Medical Technicians</li> <li>Firefighters</li> </ul>	<b>Legal Services</b> <ul style="list-style-type: none"> <li>Judges</li> <li>Lawyers</li> <li>Paralegal Assistants</li> </ul>
 <b>Manufacturing</b>	Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.		
<b>Manufacturing Production Process Development</b> <ul style="list-style-type: none"> <li>Machinists</li> <li>Electrical Engineers</li> <li>Tool &amp; die Makers</li> </ul>	<b>Maintenance, Instillation &amp; Repair</b> <ul style="list-style-type: none"> <li>Metal Fabricators</li> <li>Refrigerator Technicians</li> <li>Security System Technicians</li> </ul> <b>Production</b> <ul style="list-style-type: none"> <li>Machine Operator</li> <li>Woodworker</li> </ul>	<b>Quality Assurance</b> <ul style="list-style-type: none"> <li>Production Inspectors</li> <li>Quality Control Technicians</li> </ul> <b>Logistics and Inventory Control</b> <ul style="list-style-type: none"> <li>Communications &amp; Operations Managers</li> <li>Production &amp; Planning Clerks</li> </ul>	<b>Health, Safety, &amp; Environmental Assurance</b> <ul style="list-style-type: none"> <li>Environmental Engineers</li> <li>Occupational Health and Safety Technicians</li> </ul>
 <b>Marketing</b>	Planning, managing, and performing marketing activities to reach organizational objectives.		
<b>Professional Sales</b> <ul style="list-style-type: none"> <li>Business Development Director</li> <li>Insurance Agent</li> <li>Real Estate Agent</li> </ul>	<b>Merchandising</b> <ul style="list-style-type: none"> <li>Buyers</li> <li>Department Store Managers</li> <li>Purchasing Agents</li> </ul> <b>Marketing Communications</b> <ul style="list-style-type: none"> <li>Advertising Layout Designers</li> <li>Business Agents</li> <li>Public Relations Managers</li> </ul>	<b>Marketing Management</b> <ul style="list-style-type: none"> <li>Market Research Analysts</li> <li>Communications Specialists</li> <li>Advertising Directors</li> </ul>	<b>Marketing Research</b> <ul style="list-style-type: none"> <li>Field Appraisers</li> <li>Research Associates</li> <li>Promotions Directors</li> </ul>
 <b>Science, Technology, Engineering &amp; Mathematics</b>	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.		
<b>Engineering &amp; Technology</b> <ul style="list-style-type: none"> <li>Computer Engineer</li> <li>Mechanical Engineers</li> <li>Software Engineer</li> </ul>	<b>Science &amp; Mathematics</b> <ul style="list-style-type: none"> <li>Horticulturist</li> <li>Physicists</li> <li>Veterinarians</li> </ul>		
 <b>Transportation, Distribution &amp; Logistics</b>	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.		
<b>Transportation Operations</b> <ul style="list-style-type: none"> <li>Air Traffic Controller</li> <li>Locomotive Engineer</li> <li>Power Plant Operator</li> </ul> <b>Logistics Planning &amp; Management Service</b> <ul style="list-style-type: none"> <li>Industrial Clerks</li> <li>Logisticians</li> </ul>	<b>Warehouse &amp; Distribution Center Facility &amp; Mobile Equipment Maintenance</b> <ul style="list-style-type: none"> <li>Auto Body Technicians</li> <li>Diesel Technicians</li> <li>Electromechanical Technicians</li> </ul>	<b>Transportation System Infrastructure</b> <ul style="list-style-type: none"> <li>Mechanical Engineers</li> <li>Surveying Technicians</li> <li>Transportation Inspectors</li> </ul>	<b>Health, Safety &amp; Environmental Management</b> <ul style="list-style-type: none"> <li>Hazardous Waste Specialist</li> <li>Nuclear Technician</li> <li>Public Health Sanitarians</li> </ul> <b>Sales and Service</b> <ul style="list-style-type: none"> <li>Reservation &amp; Ticket Clerks</li> <li>Travel Agents</li> </ul>









# Agriculture

## GENERAL INFORMATION

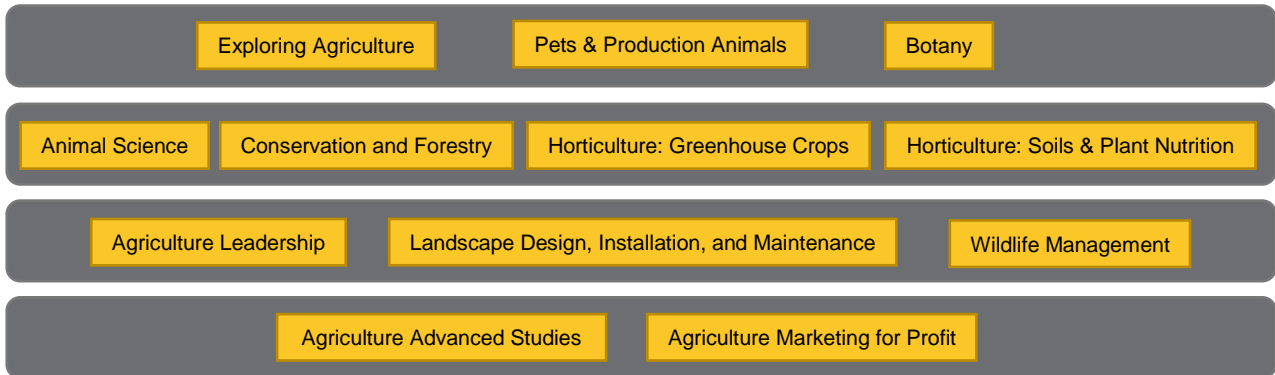
**Graduation Requirement: None**

- Courses offered are highly beneficial to everyday life and contribute to the development of lifelong skills.
- Agriculture courses develop the skills necessary for numerous careers and hobbies.
- Membership in FFA provides outstanding leadership activities including local, state, and national leadership conference participation.
- Selected courses require a course fee for materials/supplies.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Agriculture Courses	# of Trimesters
Agriculture Advanced Studies 	1
Agriculture Leadership	1
Agriculture Marketing for Profit	1
Animal Science (New!)	1
Botany	1 (1 <sup>st</sup> )
Conservation & Forestry	1 (1 <sup>st</sup> )
Exploring Agriculture	1
Horticulture: Greenhouse Crops  	1 (3 <sup>rd</sup> )
Horticulture: Soils & Plant Nutrition  	1 (1 <sup>st</sup> )
Landscape Design, Installation, and Maintenance 	1 (3 <sup>rd</sup> )
Pets and Production Animals	1
Wildlife Management	1 (1 <sup>st</sup> or 3 <sup>rd</sup> )
<b>DEPT CONTACT: Mr. Ryan Holle</b>	



**Course Sequence**



# Agriculture Courses

## **Agriculture Advanced Studies**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Six Ag Courses & Dept. Consent  
Credit: 0.5



Agriculture Advanced Studies is recommended for students interested in developing and working on an advanced agriculture project under the supervision of a teacher. Projects may include repair of mechanical equipment, propagation of plants, in-depth animal studies, veterinary studies, conservation and land management projects. Interested students must complete an application that includes a written statement of the intended goals along with a developed plan of activities. Applications are submitted to the Agriculture Department and must be approved before acceptance into the program. Not all applications are approved.

## **Agriculture Leadership**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: At least One Ag Course  
Credit: 0.5

Agriculture Leadership is a student driven course emphasizing skills needed for positions of leadership and the ability to excel. This course is based on the New York Times best-seller, "The Seven Habits of Highly Effective People". Students discover their personality traits, reflect on their relationships with others, master their ability to prioritize and accomplish goals, and interact with others in order to maximize the achievements of a group. Students will be challenged to create a list of personal values to live by, as well as a set of team values to focus on. Group challenges, personal challenges, and self-reflection are a huge component of the class. It is very much a course of, by, and for upperclassmen about to enter the real world as productive citizens and valuable people.

## **Agriculture Marketing for Profit**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: At least One Ag Course  
Credit: 0.5

Agriculture Marketing for Profit is recommended for students who are interested in marketing, public relations and sales of agricultural commodities and related products. Students will learn concepts in the creation of products to be marketed in the agricultural industry, future markets and farm law as well as consumers and their references in marketing techniques. The FFA test plot is used as a basis for record keeping and public relations, computer programs are used for record keeping and other tasks, and classroom projects and public speaking are required.

## **Animal Science (New!)**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Animal Science is an advanced agriculture class for science credit. This course will look deeper at the hierarchy, structure, and functions of animals. Students will explore animal anatomy and physiology of various breeds, conduct research trials, and use various hands-on learning labs focused on: cell structure, muscle structure, and veterinary medicine. Students will also experience various field trips and speakers.

## **Botany**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Botany is a project-based, advanced agriculture course with a focus on plants, for science credit. Students will study plant anatomy (parts), plant physiology (function), horticulture (naming and classifying), plant ecology (interactions), plant propagation and reproduction, growing media, nutrients, plant regulators, and hydroponics. Many different kinds of activities combine to help the student build knowledge and skills in biological concepts as they relate to plants. Students will have the opportunity to introduce a problem based learning project utilizing plants that they grow, care for, and manage in the ETHS greenhouse.

## **Conservation and Forestry**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Conservation and Forestry is a hands-on course designed for students who are interested in the preservation and conservation of natural resources and surrounding environments. Emphasis will be placed on making the student aware of what is happening to the resources around us and what our responsibility is to preserve those resources. Topics include everything from tree identification, physical identification of tree parts, forest preservation, chain saw safety, and urban forestry management. Students will complete a Tree Leaf Identification project which will allow them to create a mega identification project of Wisconsin Trees. Students will also create a Forestry Management Plan on a land tract of their choice. This will include identification of desired species, removal of evasive species, aging and equating value of standing timber, as well as surveying the land tract.

### Exploring Agriculture

Length: 1 trimester  
Typical Grade Level: 9, 10  
Prerequisites: None  
Credit: 0.5

Exploring Agriculture is recommended for students interested in plants, animals, wildlife, forestry, all agricultural products, or other agriculture related fields. This course provides an agriculture overview including topics such as global agriculture, careers in agriculture, problem solving in agriculture, leadership, FFA, production agriculture, and the environment. Student projects include understanding agricultural concepts, working in various agricultural careers after hosting a career fair, creating a problem based learning project about a student-chosen aspect of agriculture, and working with an aquaculture system. A wide variety of agricultural experiences and opportunities are provided. Daily class energizers and team building opportunities are also provided.

### Horticulture: Greenhouse Crops

Length: 1 trimester (3<sup>rd</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Horticulture: Greenhouse Crops is a hands-on course involving an extensive study of the horticulture industry, including the career sector, growth, care, and management of a variety of plant material, reproductive techniques, pesticide and herbicide use, as well as seasonal projects. This class will allow students the opportunity to grow, care, and manage over 6,500 annual and perennial flowers, and a variety of vegetables and houseplants in our high school greenhouse.

### Horticulture: Soils and Plant Nutrition, Plant Pests & Beneficials

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Horticulture: Soils and Plant Nutrition, Plants, Pests, and Beneficials is hands-on course involving an extensive study of the horticulture industry including the career sector, growth, care, and management of a variety of plant material, reproductive techniques, extensive study in soils, pesticide and herbicide use, pest destruction, plant beneficials as well as seasonal projects. Fall seasonal projects include vegetable growth, care and management, pumpkin picking, vegetable and salsa canning, personal horticultural research projects, wreath, center piece, and door swag creation, among many others. Students will spend an enjoyable amount of time in the Greenhouse where there is a wide variety of houseplants students will care for and have the ability to replicate and take home.

### Landscape Design, Installation and Maintenance

Length: 1 trimester (3<sup>rd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: None  
Credit: 0.5



Landscape Design, Installation and Maintenance is a hands-on course that focuses on landscaping principles and concepts that includes the growth, care, and management of plants used in the landscape. Students will learn principles of landscape design, the importance of landscaping, how to read landscape drawings to scale, planting techniques, and how to build retaining walls, decks, patios, and other various landscape creations. Students will learn how to design their own landscape plan both digitally and mechanically, install the design, and maintain the landscape for years to come.

### Pets and Production Animals (formerly Animal Science)

Length: 1 trimester  
Typical Grade Level: 9, 10  
Prerequisites: None (Junior/Senior department consent)  
Credit: 0.5

Pets and Production Animals (formerly called Animal Science) is an extensive study involving the growth, care and management of production animals, and animals utilized as pets. Understanding common animal names, breeds of animals, careers within Animal Science, and the major systems are just a portion of the hands on and creative learning that will happen in this course. An animal management tool of the day will kick start each class period, following a discussion of the use of the tool, following the remainder of the class periods endeavors. If you are interested in animals, and enjoy a hands-on individualized learning experience, Pets and Production Animals is the class for you. NOTE: This course does not count as a science credit.

### Wildlife Management

Length: 1 trimester (1<sup>st</sup> or 3<sup>rd</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Wildlife Management is a hands-on outdoor course recommended for any student interested in wildlife and wilderness. Areas of focus include outdoor survival and various survival techniques, habitat creation and observation, fish taxidermy and lure making, wildlife photography, state and national park research and exploration, hide tanning, and career exploration. Students will investigate the ethical, legal, and safety areas in reference to wildlife management and hunting. Problem based and inquiry based learning are a large portion of the educational opportunities within this class. The performance based nature of this class will allow an individual to broaden their skills of the outdoors and all that it has to offer.

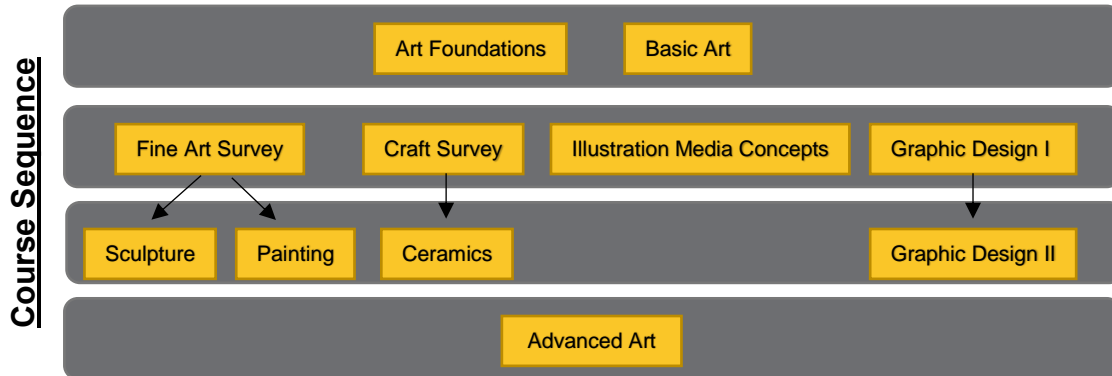
# Art

## GENERAL INFORMATION

### Graduation Requirement: None

- Art helps individuals understand the diversity of culture, allows creativity to flourish, and assists students to understand how to visually communicate their ideas while producing quality craftsmanship.
- Courses require a course fee for materials/supplies.
- All Prerequisite courses **MUST** be completed successfully.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Art Courses	# of Trimesters
Advanced Art 	1
Art Foundations	1
Basic Art	1
Ceramics	1
Craft Survey	1
Fine Art Survey	1
Graphic Design I	1 (1 <sup>st</sup> or 2 <sup>nd</sup> )
Graphic Design II 	1 (2 <sup>nd</sup> or 3 <sup>rd</sup> )
Illustration Media Concepts	1
Painting	1
Sculpture	1
<b>DEPT CONTACT: Mrs. Lori Puls</b>	



# Art Courses

## **Advanced Art**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Advanced Art is a course where the instructor assists students in setting personal goals that will emphasize the development of their individual talent. Students have the opportunity to work in a wide variety of media that best demonstrate their own personal skills and create a final exhibit of their work. Students are expected to purchase additional supplies for more complex projects. Students may take this course for one or two trimesters equaling a total of 0.5 or 1.0 credits.

## **Art Foundations**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Art Foundations is designed to expand student knowledge to various techniques in art and develop the fundamental skills needed for a solid foundation in the visual arts. This course will lead students to understand aesthetic expression and lead them to see the relationship between art and their lives. Students will use their imaginations to develop multiple solutions to problems, expand their minds, and create ideas for original works of art and design. Students will create projects using pencil, ink, clay, paint and sculpture media. Students will produce projects that effectively communicate and express ideas using various media and processes. The elements and principles of design will be introduced through exploration of various 2D and 3D media and techniques. The structure of the class will consist of guided exercises, class projects, artist videos, group discussion and critiques.

## **Basic Art**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Basic Art is designed to expose students to various techniques in art and develop the fundamental skills needed for a solid foundation in the visual arts. This course will lead students to understand aesthetic expression and lead them to see the relationship between art and their lives. Students will use their imaginations to develop multiple solutions to problems, expand their minds, and create ideas for original works of art and design. Students will create projects using colored pencil, ink, block printing and sculpture media. Comprehension and skills will be emphasized. Students will produce work that effectively communicates and expresses ideas using various media and processes. The elements and principles of design will be introduced through the exploration of various 2D and 3D media. The structure of the class will consist of guided exercises, class projects, artist videos, group discussion and critiques.

## **Ceramics**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Ceramics further develops technical skills in ceramics including hand-built and wheel thrown forms. Students will incorporate ceramic forms from cultures around the world. A strong emphasis is placed on using one's art ability to express ideas and feelings and using art media as communication.

## **Craft Survey**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Craft Survey is designed to expose students to the history and techniques of crafts throughout the world. Students will study and create projects including basket weaving, art metals, clay mosaics, and glass. Students will use their imaginations to problem solve and create original works of art and design. Students will learn to understand and appreciate the historical value of crafts that have played an important role in culture.

## **Fine Art Survey**

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Fine Art Survey emphasizes drawing, painting, and sculpture. Students will relate personal experiences in visual terms and produce original projects. Students develop their work in painting and drawing techniques with pastels, tempera paint and other media in addition to sculptural media.

## Graphic Design I

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Graphic Design I is recommended for students interested in commercial art, photography and computer graphics. Students will complete design projects using a variety of media including paint, pen and ink, silk-screen techniques, computer graphics, and digital photography. Students will study composition, silk screen printing processes, and composition. There will be a field trip where students will take photographs and use them to create a final project.

## Graphic Design II

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Graphic Design II is recommended for students interested in photography, computer graphics, and/or scanning and printing procedures. Students will learn intermediate functions of a DSLR (professional digital camera), composition, and photographic manipulation. Additional focus will be directed toward career opportunities through hands-on activities, field trips (including at least one with a photography purpose), guest speakers and classroom discussions.

## Illustration Media Concepts

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Illustration Media Concepts is designed for the student who desires to improve their drawing skills. The students will work with a variety of media in thematic units. The course will begin with introductory activities to practice and demonstrate basic design elements. Students will study the human figure and skeletal structure. Drawing categories that students will work with include self-portrait, perspective, observational, figure, abstract and non-representational. Students will be required to complete a self-portrait as well as a perspective and mixed media project.

## Painting

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Painting further develops skills and personal growth in the visual arts. Students will learn about painters and paintings of various cultures. Media used are ink, oil paint, watercolor, oil pastels, and fabric dye. Students will produce quality images and objects that effectively communicate and express ideas using various media, techniques, and processes. A field trip and project completion are a part of this course.

## Sculpture

Length: 1 trimester (1<sup>st</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5









Sculpture is recommended for students that wish to seek new means of expression through sculpture. Students will develop their visual perception, sculptural skills, and personal growth by exposure to a variety of materials such as soap stone, clay and other media and tools. Students will also study famous sculptors and their work.

# Business

## GENERAL INFORMATION

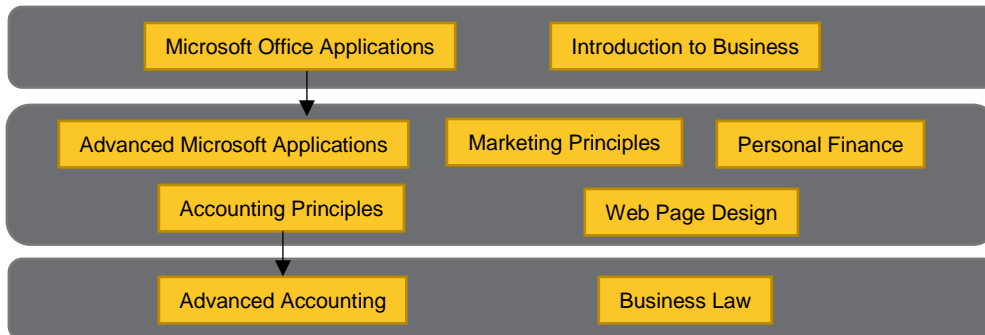
### Graduation Requirement: None

- Students interested in business careers should take courses offered including *Personal Finance, Accounting, and Advanced Accounting.*
- Students interested in enhancing keyboarding and computer skills should take courses including *Microsoft Office Applications, and Advanced Microsoft Office.*
- Students attending a four-year college/university or two-year technical college would benefit from all courses in the Business Education area.
- Select courses require a course fee for materials/supplies.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Business Courses	# of Trimesters
Accounting Principles 	2
Advanced Accounting 	2
Advanced Microsoft Office 	1
Business Law 	1
Introduction to Business 	1
Marketing Principles (New!) 	1
Microsoft Office Applications 	1
Personal Finance 	1
Web Page Design	1
<b>DEPT CONTACT: Mrs. Deb Leising</b>	



**Course Sequence**





# Business Courses

## Accounting Principles

Length: 2 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 1.0



Accounting Principles is strongly recommended for students planning on pursuing a career in any business related area or in applying the principles in their personal financial activities. This course is an introduction to the basic principles of accounting. Throughout the course students will work with two types of business: a Service Business organized as a Proprietorship and a Merchandising Business organized as a Corporation. Each type of business will be presented in a complete accounting cycle covering and analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries. Accounting concepts will be introduced using current business examples and computerized problems will be integrated to complete the accounting cycle.

## Advanced Accounting

Length: 2 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: Accounting Principles  
Credit: 1.0



Advanced Accounting will cover the concepts of Financial Accounting, Payroll Accounting, and Managerial Accounting. Students will continue their study of Financial Accounting from the Accounting Principles course, including financial statement analysis. Payroll accounting will expose students to the various tax rules and laws, tax rates and reports that form the core of a payroll accountant's responsibility. Managerial accounting is the process of identifying, measuring, analyzing, interpreting, and communicating information to managers for the pursuit of an organization's goals. In addition, QuickBooks will be integrated throughout the course, introducing the student to commercial-based accounting software.

## Advanced Microsoft Office

Length: 1 trimester (2<sup>nd</sup> or 3<sup>rd</sup>)  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Advanced Microsoft Office is recommended for all students, including those entering the job market after high school and those pursuing post-secondary educational opportunities. This course is designed to help students develop an advanced level of proficiency with the most commonly used office productivity software. Participants will develop the skills to: create and edit complex spreadsheets; manage mail, contacts, calendar and tasks in Outlook; create advanced and interactive PowerPoint presentations; and design documents in Word. Specifically, course topics cover advanced and specialized features of Microsoft Excel, Outlook, PowerPoint, Access, Word, and OneNote.

## Business Law

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: None  
Credit: 0.5



Business Law is designed to teach students about business law and its general applications, not only to business situations but to personal situations as well. Students will be introduced to the fundamental principles of law in the areas of contracts, sales, negotiable instruments, partnerships, corporations, and property.

## Introduction to Business

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Introduction to Business is designed to introduce the student to the principles and functions of business. Various functional areas of business will be discussed including forms of business ownership, small business/ entrepreneurship, management, human relations, marketing, international business, finance, and the stock market. Students will also be exposed to various careers in business. There will be hands-on activities, field trips, guest speakers and case studies during this course. In addition, students will participate in various business simulations.

## Marketing Principles (New!)

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Marketing Principles is a foundational course that introduces students to the principles of marketing. This course explores the entire marketing mix including: segmentation, targeting, positioning, marketing research, consumer behavior, product development, pricing, policies and distribution and overview of promotion. This course provides a comprehensive overview of the exciting world of marketing.

## Microsoft Office Applications

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Microsoft Office Applications is recommended for all students, including those entering the job market after high school and those pursuing post-secondary educational opportunities. This course will offer students an overview of the Microsoft Office Suite including Word, Excel, PowerPoint, Access, and Office 365. Students will also learn the components of Windows 10 and Office 365. By taking this course, students will be better prepared for the MOS Expert Certification which will be offered through the Advanced Microsoft Office class.

## Personal Finance

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Personal Finance will provide a foundational understanding for making informed personal financial decisions and help build a successful financial future by helping students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes.

## Web Page Design

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5






Web Page Design is designed to familiarize students with the creation and management of web sites. HTML and Dreamweaver CS6 will be used to create, format, illustrate, design and edit web pages that will attract and hold the viewer's interest. Introductory image creation and alteration will be covered using Adobe Photoshop CS6 and Web 2.0 tools.

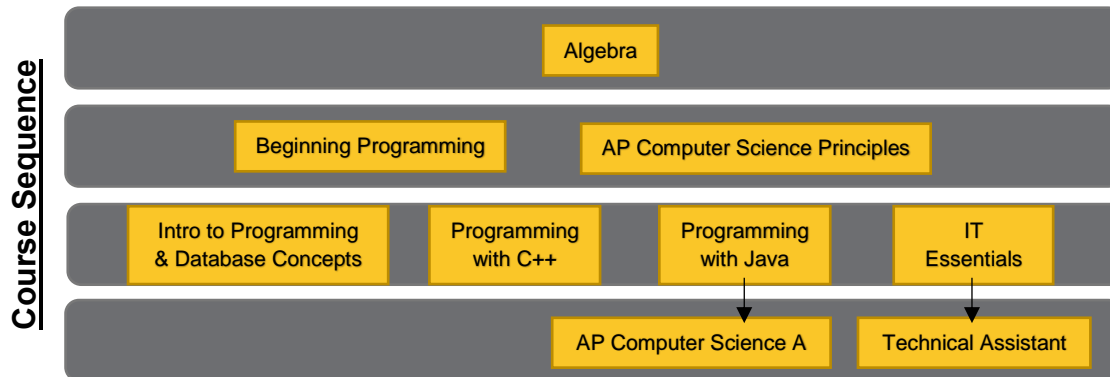
# Computer Science

## GENERAL INFORMATION

**Graduation Requirement: None**

- Prerequisites **MUST** be completed successfully (grade of “C” or better)
- Computer programming is a specialized area of computers but is the underlying force in all computer applications. A background in programming will develop: (1) Problem- solving skills and techniques (2) An awareness of the capabilities and limitations of a computer (3) A strong computer efficiency, and (4) The basics needed to progress in a computer field.
- Computers are a necessary tool in a student’s professional and/or personal life.
- Advanced computer courses are beneficial in all fields, especially business, marketing, computer science, engineering, and trade/industry.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course’s Essential Understandings, Units, and Learning Targets.

Computer Science Courses	# of Trimesters
AP Computer Science A 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Computer Science Principles 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
Beginning Programming	1 (1 <sup>st</sup> or 2 <sup>nd</sup> )
Intro to Programming & Database Concepts 	1 (2 <sup>nd</sup> or 3 <sup>rd</sup> )
IT Essentials 	2
Programming with C++ 	1
Programming with Java	1
Technical Assistant	1
<b>DEPT CONTACT: Mr. Nolan Pawleski</b>	



# Computer Science Courses

## AP Computer Science A

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 10, 11, 12

Prerequisites: Programming with Java

Credit: 1.0



AP Computer Science A is recommended for students interested in the field of computers and informational technology. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. Students will study the history of computers including hardware, software, and ethics. Topics include algorithm development and design, recursion, data structures and collections, efficiency considerations, system reliability, testing strategies, number systems (binary, octal, decimal, and hexadecimal), numerical analysis and the GridWorld. The course is presented using the Object Oriented paradigm and students will work with a Case Study provided by the College Board.

## AP Computer Science Principles

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 10, 11, 12

Prerequisites: Algebra

Credit: 1.0



AP Computer Science Principles is recommended for students interested in the field of computers and informational technology. This course seeks to provide students with a “future proof” foundation in computing principles. The curriculum assumes no prior knowledge of computing and is written to support students who are new to the discipline. The Internet and innovation provide a narrative arc for the course, a thread connecting all of the units. The course starts with learning about what is involved in sending a single bit of information from one place to another and ends with students considering the implications of computing innovation of their own design.

## Beginning Programming

Length: 1 trimester (1<sup>st</sup> or 2<sup>nd</sup>)

Typical Grade Level: 9, 10, 11, 12

Prerequisites: Algebra (concurrent enrollment or completion); Keyboarding Efficient (highly recommended)

Credit: 0.5

Beginning Programming is designed to introduce students to computer programming with an emphasis on logic, problem-solving, debugging, and understanding how computers work. An introduction to computer programming in Python and Arduino C++ will be addressed. Using Python, students will write and execute many short programs stressing style, organization, and user-friendliness. Using Arduino C++, students will design, build, and program simple electrical devices. The majority of programming will be done during class but students should plan additional time outside of class to experiment with the languages.

## Introduction to Programming and Database Concepts

Length: 1 trimester (2<sup>nd</sup> or 3<sup>rd</sup>)

Typical Grade Level: 9, 10, 11, 12

Prerequisites: Beginning Programming or AP Computer Science Principles

Credit: 0.5



Introduction to Programming and Database Concepts is recommended to students interested in the field of computers. This course will introduce students to the structures, logic, and controls of programming techniques and database applications. Students will be able to develop a program that will utilize a database.

## IT Essentials

Length: 2 trimesters

Typical Grade Level: 11, 12

Prerequisites: Beginning Programming or AP Computer Science Principles

Credit: 1.0



IT Essentials is recommended for students interested in the field of computers and informational technology. This course is designed to introduce students to the hardware components of a computer and the principles of computer networking. Students will explore the Windows environment, hardware/peripheral installation and configuration, diagnostics and repair, local and wide area networks, and Internet connections. Students will combine theoretical lessons with hands-on activities to better understand hardware and networking concepts.

## Programming with C++

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Beginning Programming or AP Computer Science Principles

Credit: 0.5



Programming in C++ is recommended to students interested in expanding their knowledge of computers or a technology-related career. This course continues the study of computer languages using the C++ programming language with an emphasis on problem-solving, troubleshooting and documentation using an advanced programming language. Students will work together and transfer their knowledge of Windows programming from Visual Basic to write and execute a variety of programs stressing the development of algorithms using a complex language.

### **Programming with Java**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Beginning Programming or AP Computer Science Principles

Credit: 0.5

Programming with Java is recommended to students interested in expanding their knowledge of computers or a technology related career. This course continues the study of computer languages using the JAVA programming language. Students will study the history of computers including hardware, software and ethics. Topics include algorithm development and design, data structures and collections, control structures, testing strategies, and number systems (binary, octal, decimal, and hexadecimal) as they relate to computer science. The course is presented using the Object Oriented paradigm.

### **Technical Assistant**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Approved Application & Department Consent

Credit: 0.5







Technical Assistant recommended for students who are dedicated to being an independent lifelong learner and who wish to gain invaluable experience and confidence in working with various programs and technical devices. Students will submit a list of goals and expectations and complete a detailed contract describing the self-determined projects. Students will develop individual work habits while researching and completing projects. Students are required to complete a weekly journal of their work and meet with a department member periodically to discuss requests, projects, progress, and possible concerns. NOTE: This class may be repeated for a maximum of 1.0 credit.

# English

## GENERAL INFORMATION

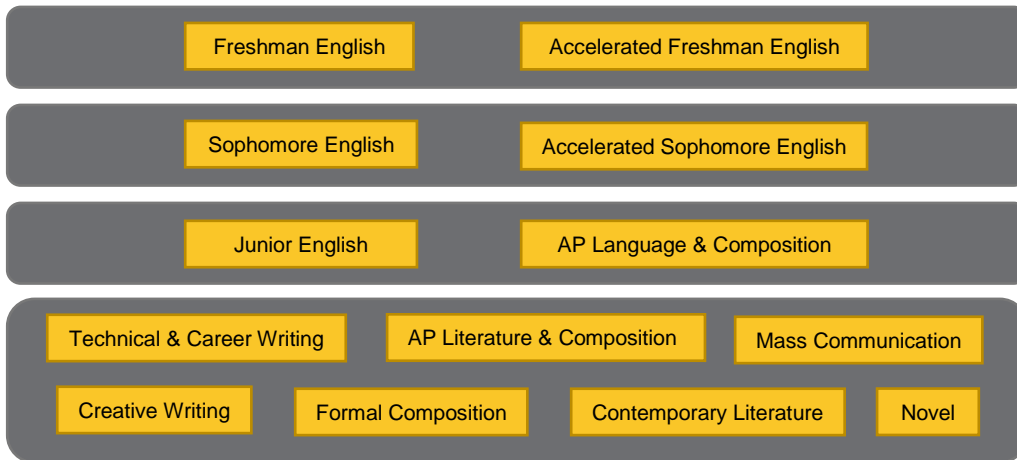
### Graduation Requirement: 4 Credits

- Students must repeat any failed Freshman, Sophomore, or Junior English class each semester that it is offered.
- The WI Department of Instruction recommends that students planning to attend a Four Year College/University or a Technical College: Enroll in 4 years of study in English including instruction in literature, composition, standard language usage and essay/theme writing including a research paper.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

English Courses	# of Trimesters
Accelerated Freshman English (A, B)	2
Accelerated Sophomore English (A, B)	2
AP Language and Composition 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Literature and Composition 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
Contemporary Literature	1
Creative Writing	1
Formal Composition 	1
Freshman English (A, B)	2
Junior English (A, B)	2
Mass Communication 	1
Novel 	1
Sophomore English (A, B)	2
Technical & Career Writing 	1
<b>DEPT CONTACT: Mrs. Claudia Felske</b>	



### Course Sequence



# English Courses

## Accelerated Freshman English

Length: 2 trimesters  
Typical Grade Level: 9  
Prerequisites: 8<sup>th</sup> grade teacher recommendation & testing data  
Credit: 1.0

Accelerated Freshman English (A, B) emphasizes the basic skills of English in greater depth and at an accelerated pace utilizing a variety of materials in addition to the regular curriculum. Students will study vocabulary, apply sentence patterns, write essays, analyze and write fiction and nonfiction texts, and develop their oral skills. Extra activities include a Shakespearean play, supplementary vocabulary, independent reading, and additional writing.

## Accelerated Sophomore English

Length: 2 trimesters  
Typical Grade Level: 10  
Prerequisites: Accelerate Freshman English and/or department consent  
Credit: 1.0

Accelerated Sophomore English (A, B) emphasizes in-depth skills in writing, analyzing fiction and non-fiction texts, and speaking situations at an accelerated pace through the application of a wider variety of course materials. Students will write essays, and analyze poetry and a Shakespearean play. Extra activities include independent projects, oral discussions and supplemental reading.

## AP Language & Composition

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: GPA of at least 3.0 or department consent  
Credit: 1.0



AP Language and Composition is recommended for accelerated Juniors in preparation for college and for AP Literature senior year. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. This course focuses on the study of nonfiction texts to develop college-level argumentative and analytical reading and writing skills. Students will engage in a variety of formal and informal writing tasks to strengthen their analytical, expository, argumentative, and narrative writing. Students will also analyze the argumentative features of a variety sources including visual images, current articles, and college level texts. Students are expected to complete a summer reading assignment and to purchase paperback copies of the texts discussed in class. If planning to also take AP Literature & Composition, it is recommended this course be taken first.

## AP Literature & Composition

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: GPA of at least 3.0 or department consent  
Credit: 1.0



AP Literature and Composition is recommended to highly motivated students who want to engage in college-level analysis and writing pertaining to fiction, prose, and poetry. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. Students will engage in the careful reading and critical analysis of imaginative literature through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide meaning and pleasure for readers. As they read, students consider a work's structure, style and tone, as well as smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Students are expected to complete a summer reading assignment and to purchase paperback copies of the plays and novels discussed in class. If planning to also take AP Language & Composition, it is recommended this course be taken second.

## Contemporary Literature

Length: 1 trimester  
Typical Grade Level: 12  
Prerequisites: Freshman English  
Credit: 0.5

Contemporary Literature is discussion-oriented and centered on high-interest, book-length modern literature emphasizing comprehension, analysis, and enjoyment. This course emphasizes the critical analysis of various novels and their metaphorical and literal meanings. Students read novels and book-length non-fiction of various types chosen from such areas as mystery, coming-of-age fiction, horror, biography, and general fiction. Students are expected to purchase paperback copies of the books discussed.

## Creative Writing

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Sophomore English or department consent  
Credit: 0.5

Creative Writing is designed to improve individual writing styles and to evaluate other writing styles. Students write and revise creative fiction and non-fiction while working in small writing groups to discuss and analyze student work and published works.



### Formal Composition

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Sophomore English or department consent  
Credit: 0.5



Formal Composition is recommended for the college-bound students not planning to take AP Language & Composition. This course emphasizes the development of various types of research papers. Students will write five papers and study sentence development, note taking and documentation, outlining, types of research, essays and term papers.

### Freshman English

Length: 2 trimesters  
Typical Grade Level: 9  
Prerequisites: None  
Credit: 1.0

Freshman English (A, B) emphasizes the basic skills of reading, writing and speaking. Students will apply sentence patterns, write essays, analyze fiction and non-fiction texts and develop oral skills. The purpose of the course is to prepare students to communicate successfully in all areas throughout their high school career.

### Junior English

Length: 2 trimesters  
Typical Grade Level: 11  
Prerequisites: Sophomore English  
Credit: 1.0

Junior English (A, B) integrates reading, writing, and speaking skills in hands-on, project-oriented activities. Students will read an American drama, participate in a play performance, write application essays, update and add to their digital portfolios, as well as write and present a persuasive speech. Students will read fiction and non-fiction texts with an emphasis on reading, analyzing, and discussing in various book club formats while utilizing 21st century technology to present their understanding.

### Mass Communication

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Freshman English  
Credit: 0.5



Mass Communication is meant to act as a survey of modern media and its impact on student's lives. Students evaluate topics trending and the implications and biases of a variety of media sources related to each topic. Part of learning about mass media will be using various tools of mass media to demonstrate and present their learning.

### Novel

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Sophomore English or department consent  
Credit: 0.5



Novel is recommended to the college-bound student. This course emphasizes the critical analysis of various novels and their metaphorical and literal meanings. Five novels of various types will be read and analyzed. Students will have significant reading homework on a daily basis and will be expected to purchase paperback copies of the novels discussed.

### Sophomore English

Length: 2 trimesters  
Typical Grade Level: 10  
Prerequisites: Freshman English  
Credit: 1.0

Sophomore English (A, B) emphasizes basic skills in writing, analyzing literature, speaking and conducting research. Students will analyze poetry, a novel, a Shakespearean play, and other fiction and non-fiction texts as well as write essays and a term paper.

### Technical & Career Writing

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Freshman English  
Credit: 0.5








Technical and Career Writing is geared toward students who plan on entering a two-year tech school or the military. This course focuses on practical writing skills for the 21st century with a work-place emphasis including cover letters, resumes, and technical writing.

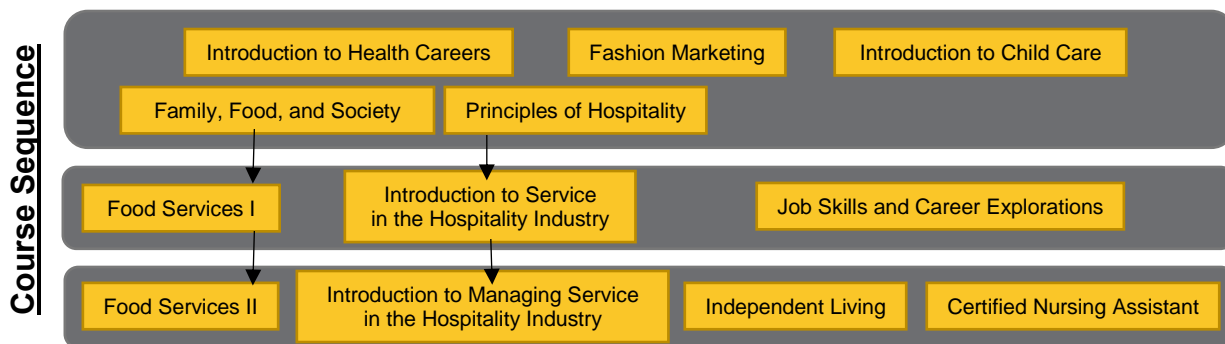
# Family and Consumer Science

## GENERAL INFORMATION

**Graduation Requirement: None**

- Many of the Family and Consumer Science courses could be beneficial to the majority of students.
- Students enrolled in Family and Consumer Science will develop and use critical/practical reasoning skills in solving problems faced by individuals and families.
- College-bound students, as well as students seeking full-time employment upon graduation, may find these courses useful since they could provide valuable insights into skills that can be employed in making career and consumer decisions.
- Selected courses require a course fee for materials/supplies
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Family and Consumer Science Courses	# of Trimesters
Certified Nursing Assistant (CNA) 	1
Family, Food and Society	1
Fashion Marketing	1
Food Services I	1
Food Services II 	1
Housing, Interiors and Furnishings	1
Independent Living	1
Introduction to Child Care	1
Introduction to Health Careers	1
Introduction to Managing Service in the Hospitality Industry (New!) 	1
Introduction to Service in the Hospitality Industry (New!) 	1
Job Skills and Career Exploration	1
Principles of Hospitality (New!) 	1
<b>DEPT CONTACT: Ms. Jinnesa Pluess</b>	



# Family and Consumer Sciences Courses

## **Certified Nursing Assistant**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: None  
Credit: 0.75



Certified Nursing Assistant (CNA) is a contracted course taught at Gateway Technical College that prepares students to perform basic nursing skills in caring for clients in various health care settings. This course has state mandated attendance requirements and students must be able to memorize important facts and details. A certificate is awarded upon successful completion of this course and graduates are eligible to take a competency test for placement on the Wisconsin Nursing Assistant/Home Health Aide Registry.

## **Family, Food, and Society**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Family, Food, and Society is recommended to students entering food-related fields or those interested in food and nutrition. This course will introduce the use of kitchen tools and appliances, food preparation procedures, and consumer knowledge of selecting and purchasing food. Units of study will include kitchen basic, nutrition and wellness, and the social and cultural aspects of food. Students will practice these skills as they relate to careers in foods, application to independent and/or family life, and society in general.

## **Fashion Marketing (Future Offering)**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Fashion Marketing is recommended for students interested in the merchandising of clothing and accessories. Topics include fashion history, contemporary designers, fashion prediction, visual merchandising, color analysis, fabric characteristics, wardrobe planning and careers in the fashion industry.

## **Food Services I**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Food Services I is recommended for students interested in advanced cooking techniques as well as for those interested in food service and employability skills needed for a food service or hospitality career. Topics include kitchen and food service equipment basics, food service preparation procedures for salads, sandwiches, entrees and desserts, marketing, menu planning and cost control techniques, and service and customer service skills

## **Food Services II**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Food Services I  
Credit: 0.5



Food Services II is recommended for students interested in pursuing food service careers. Students will explore careers in food-related fields and will learn entry-level food service and employability skills needed for a food service career. Students will be employed in the ETHS kitchen gaining a minimum of 200 hours of work experience, and completion of a minimum of 50 of the 72 competencies or 70% of the Student Work Experience Checklist.

## **Housing, Interiors, and Furnishings (Future Offering)**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Housing, Interiors, and Furnishings is recommended for all students for future personal use and for those entering consumer services or interior design fields. This course focuses on individual housing needs and factors which influence housing choices. The emphasis is on conserving time, money and energy in relation to present and future housing needs. Students will select furnishings and accessories, draw a floor plan, and learn skills in furniture arrangement.

### **Independent Living (Future Offering)**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: none  
Credit: 0.5

Independent Living is recommended to all students to provide practical information they need in the “next life situation” as independent young adults. This course will emphasize the skills and knowledge needed for living on one’s own, becoming a better informed consumer, and making informed decisions. Students will learn the importance of managing their time, energy, skills, and money. Students will identify resources for finding houses, furnishings, and roommates. Students will learn consumer principles and apply them to planning meals, preparing for a purchase, and recognizing buying choices. Students will also understand the impact of wise consumer choices in purchasing, insuring, and maintaining a vehicle.

### **Introduction to Child Care**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Introduction to Child Care is recommended to those working with children in education or health-related fields and as family members. Students will gain knowledge in child care, human development, and guidance methods which can be used in personal life, family life, and careers in child care.

### **Introduction to Health Careers**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Introduction to Health Careers is recommended for any student interested in pursuing a career in a medical or health-related field. Career opportunities will be explored as well as social and educational requirements for job, education, and career entry. Students are required to complete a job shadowing assignment.

### **Introduction to Service in the Hospitality Industry (New!)**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: Principles of Hospitality  
Credit: 0.5



Introduction to Service in the Hospitality Industry discusses customer service in the hospitality field and how it is the backbone of this industry. Students will learn how to identify good and not so good service as well as how correct service evolved and the reason for its existence. Students will learn how to deal with upset customers and gain basic disputer management skills.

### **Introduction to Managing Service in the Hospitality Industry (New!)**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: Introduction to Service in the Hospitality Industry  
Credit: 0.5



Introduction to Managing Service in the Hospitality Industry is a designed for students to master key supervision skills needed in the hospitality fields. Topics will include planning, organizing, staffing, controlling, leadership, team management, and training.

### **Job Skills and Career Exploration**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Job Skills and Career Exploration is designed for twelfth grade students who would like the opportunity to pursue a particular career through participation in a work experience program. The course provides students with the employability skills and networking skills they need in order to achieve their goals and be successful in their future lifestyle. Some of the topics covered in this course include an introduction to the job market, an understanding of personal attributes and capabilities, human relations at work, workplace readiness, personal grooming, health and safety considerations, career planning, job advancement and personal growth and career resource/search skills.

### **Principles of Hospitality (New!)**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5










Principles of Hospitality is an introductory course that tours the related hospitality fields of hotels, tourism, food service, and attractions with an emphasis on customer service. The course will cover the typical types of establishments found in the United States and Wisconsin. Students will be introduced to common job titles, organizational structures, career opportunities, and trends in this field.

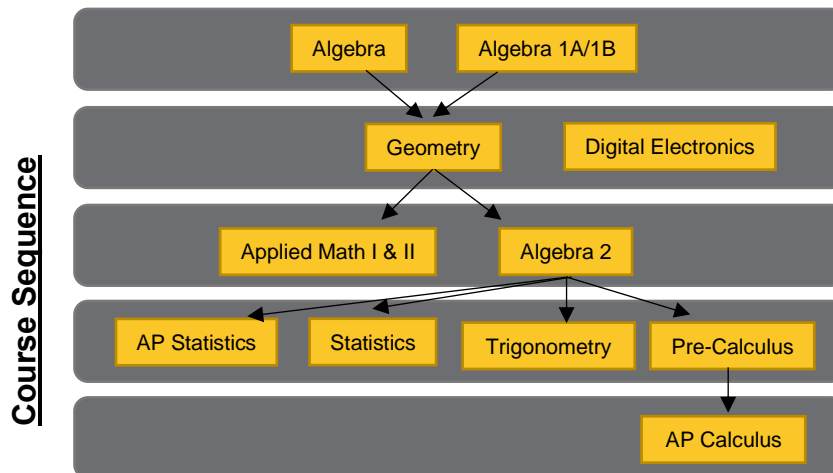
# Mathematics

## GENERAL INFORMATION

### Graduation Requirement: 3 credits

- Algebra taken at the middle school does not count toward the credits necessary for high school graduation.
- Daily attendance and participation is vital to successful completion of any math class.
- Three years of math, including Algebra, Geometry and Algebra 2 are the **minimum** requirements for the UW System.
- Technical colleges recommend a solid math background that includes Algebra and Geometry. Algebra 2 is also recommended for some fields.
- Programmable calculators will be part of all curriculum beyond Geometry. They can be rented or purchased through the math department.
- The math department strongly recommends that a grade of “C” or better in any prior course be considered as a minimum proficiency for continued work in sequential college preparatory courses.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course’s Essential Understandings, Units, and Learning Targets.

Mathematics Courses	# of Trimesters
Algebra	2
Algebra 1A AND Algebra 1B	4
Algebra 2	2
AP Calculus 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Statistics 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
Applied Math I & II 	2
Digital Electronics 	2
Geometry	2
Pre-Calculus 	2
Statistics 	1
Trigonometry 	1
DEPT CONTACT: Mrs. Colleen Heitl	



# Mathematics Courses

## Algebra

Length: 2 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 1.0

Algebra emphasizes mathematical vocabulary and basic skills needed in mathematics, science and engineering, as well as in everyday life. Topics covered include: algebraic properties of real numbers, exponents, basic operations of polynomials and monomials, equation solving, factorization, numerical and algebraic fractions, linear equations functions, inequalities, rational and irrational numbers and quadratic functions.

## Algebra 1A & Algebra 1B

### Algebra 1A

Length: 2 trimesters  
Typical Grade Level: 9, 10  
Prerequisites: Staff recommendation  
Credit: 1.0

### Algebra 1B

Length: 2 trimesters  
Typical Grade Level: 9, 10  
Prerequisites: Staff recommendation  
Credit: 1.0

Algebra 1A and Algebra 1B provides students with basic mathematical skills needed in mathematics, science and engineering, as well as in everyday life. Topics include the study of equations, factoring, basic operations using algebraic notation, and linear equations. Algebra 1A and Algebra 1B will be the same as Algebra but will be held over a two-year period. Students will have additional time to work on math in the classroom while they receive feedback and assistance.

## Algebra 2 (formerly Advanced Algebra)

Length: 2 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: Geometry  
Credit: 1.0

Algebra 2 is recommended for all college-bound students. This course is designed to develop proficiency with mathematical skills, to expand understanding of mathematical concepts, to improve logical thinking and to use relevant real-life applications. Topics covered include: linear, quadratic, polynomial, logarithmic and exponential functions, radicals, conic sections and exploration of the features and uses of the programmable calculator.

## AP Calculus

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)  
Typical Grade Level: 12  
Prerequisites: Pre-Calculus  
Credit: 1.0



AP Calculus is highly recommended for students entering a math/science field. This class is designed to maintain a college-level pace and cover the material of calculus according to the requirements for taking the Advanced Placement Calculus AB exam. The main topics of this course are limits, derivatives, integrals, and the Fundamental Theorem of Calculus. Students will investigate and analyze course topics using equations, graphs, tables, and words, with a particular emphasis on a conceptual understanding of calculus. Students will prepare for the AP exam by completing application and calculator problems, practice with past test questions, and refine testing techniques.

## Applied Math I & II (formerly Math Survey)

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: Geometry  
Credit: 1.0



Applied Math I & II is designed as a third year math class that will cover a wide range of math standards. Students will review concepts from algebra and geometry as well as be introduced to advanced algebra, probability and statistics concepts. This class is transcribed with Gateway and offers dual credit.

## AP Statistics

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: Algebra 2  
Credit: 1.0



AP Statistics is highly recommended for students entering a math/science field. This class is designed to maintain a college-level pace and cover the material of statistics according to the requirements for taking the Advanced Placement exam. Students will develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students will also design, administer, and tabulate results from surveys and experiments. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students are required to prepare frequent written and oral analyses of real data to develop effective statistical communication skills. Students will prepare for the AP exam by completing application and calculator problems, practice with past test questions, and refine testing techniques.

## Digital Electronics

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: IED or POE  
Credit: 1.0



Digital Electronics is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the Digital Electronics course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. Students will analyze, design and build digital electronic circuits. While implementing these designs, students will continually hone their interpersonal skills, creative abilities and understanding of the design process.

## Geometry

Length: 2 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: Algebra or Algebra 1B  
Credit: 1.0

Geometry is required for all students as it provides basic mathematical skills needed for further work in mathematics, science, and engineering as well as in everyday life. This course has a balance of theory and application with an emphasis on problem solving. Topics covered include: formal proofs using deductive reasoning, indirect proofs, plane figures such as triangles, circles, squares, introduction to trigonometry, construction, coordinate geometry, and transformation.

## Pre-Calculus

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: Algebra 2  
Credit: 1.0



Pre-Calculus is recommended for students entering a math/science field. Function families, including polynomial, rational, logarithmic, exponential, and trigonometric, are explored algebraically and graphically. Trigonometric functions will be studied in detail, including their meanings in a triangle and a unit circle. The different conic sections are studied in greater detail than in previous courses. Students will investigate calculus concepts such as limits, continuity and derivatives.

## Statistics

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Algebra 2  
Credit: 0.5



Statistics is recommended for any college-bound student. Students will develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Topics covered include: probability, normal distribution, data collection, regression, correlation, experimental and sample design and statistical inference.

## Trigonometry

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Algebra 2  
Credit: 0.5



Trigonometry is recommended to students entering a math/science related field. Students will study the relationship between length of sides and measure of angles of triangles. They will investigate the six trigonometric functions and their inverses algebraically, numerically, and graphically. They will model real-world behavior using these functions. Students will use the trigonometric identities to further their understanding of the relationships between the functions.





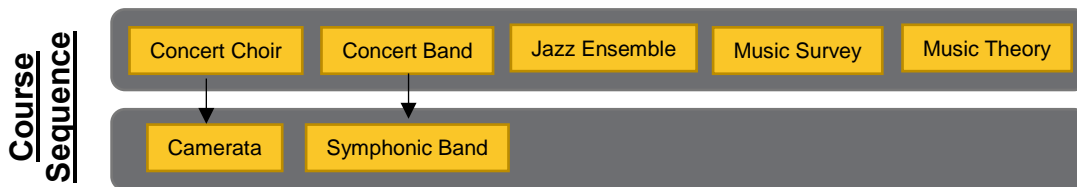
# Music

## GENERAL INFORMATION

### Graduation Requirement: None

- Many of the music courses offer knowledge and enjoyment to students interested in music recreationally and/or professionally.
- The WI Department of Public Instruction recommends experience in the performing arts to college-bound students.
- Students who use school-owned instruments will be assessed a user fee.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Music Courses	# of Trimesters
Concert Band	3
Camerata (Advanced Choir) 	3
Concert Choir	3
Jazz Ensemble	3
Music Survey	1
Music Theory	1
Symphonic Band 	3
<b>BAND CONTACT: Mr. Tim Hummel</b>	
<b>CHOIR CONTACT: Ms. Aimee Swanson</b>	



# Music Courses

## **Camerata (Advanced Choir)**

Length: 3 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: Concert Choir or Director Consent  
Credit: 1.5 (0.5 per trimester)



Camerata (Advanced Choir) is a continuation of Concert Choir and is designed for more advanced students who have had one or more years of high school choral instruction. Students enroll in this course after auditioning. Public performance is required (typically four major concerts and various smaller performances). This course addresses the National Core Music Standards by exploring the phenomenon of music creating, music performing, responding to music, and connecting to music. Music selections are different each year and are selected for the optimum growth of the students as musicians and choristers. Grading is based on the 2014 National Core Music Standards.

## **Concert Band**

Length: 3 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 1.5 (0.5 per trimester)

Concert Choir is recommended for students who would like to develop their vocal techniques as they relate to high school choral singing. This is a non-auditioned course (any student, regardless of prior choral experience, may enroll in this class). Public performance is required (typically four major concerts and various smaller performances). This course addresses the National Core Music Standards by exploring the phenomenon of music creating, music performing, responding to music, and connecting to music. Music selections are different each year and are selected for the optimum growth of the students as musicians and choristers. Grading is based on the 2014 National Core Music Standards.

## **Jazz Ensemble**

Length: 3 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: Concurrently in Concert or Symphonic Band or director consent  
Credit: 1.0

Jazz Ensemble is held prior to the normal school day during "zero-hour" (course begins at 7:00am). Jazz Ensemble is recommended for advanced instrumental students who would like to perform jazz music. Students are required to attend rehearsal five days a week, alternating days of ensemble and sectional rehearsals. Through daily rehearsals and performances, students will improve their skills and develop an understanding and appreciation for jazz performance styles, history, language, improvisation, solo playing and ensemble playing. Yearly performances include two concerts, at least two jazz festivals, recording sessions, a fall clinic, and other school and community performances.

## **Music Survey**

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Music Survey is recommended to students who enjoy music but do not wish to perform. Through readings from text, listening examples and some use of the MIDI technology, students will gain insight into music composition and music's relationship to our culture and other cultures. Musical connections to dance, musical theater, film and opera, advertising, and music styling from various generations will be explored.

## **Music Theory**

Length: 2 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 1.0

Music Theory is recommended for students that do not wish to perform but still want to learn about the structure and form of written music. The concepts covered are not covered in the regular choral and band courses. Concepts covered include rhythms and counting, scales and modes, chords and chord progressions, ear training, and rhythmic and harmonic dictation.

## **Symphonic Band**

Length: 3 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: Audition and/or Director Consent  
Credit: 1.5 (0.5 per trimester)



Symphonic Band is a continuation of Concert Band and is for students who are serious about performance music study and have demonstrated enough instrumental proficiency to be successful in an advanced high school band. Students should enroll for the entire year (3 trimesters). This class emphasizes the development of intermediate to advanced musical skills both on an individual and ensemble basis through daily rehearsals and a somewhat lengthy performance schedule. Members are expected to participate in marching band, pep band, and the solo ensemble festival. Individual lessons are required and must be scheduled during study halls, before school, or after school. Grading factors include attendance and behavior during lessons, concerts, and performances. This course may be taken for more than one trimester for credit.

# Other Electives

## GENERAL INFORMATION

**Graduation Requirement: None**

- Courses in study skills and career skills are recommended for students who are interested in education and training beyond high school.
- Work Experience students in business-related jobs will receive a state certified co-op skill certificate as part of their job experience.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Other Electives Courses	# of Trimesters
Advanced Yearbook Production	1
College Prep Study Skills	1
Job Skills and Career Exploration	1
Learning Center for Credit	1
Peer Tutoring	1
Technology Integration Squad	1
Work Experience	1
Yearbook Production	1
Youth Apprenticeship	1



## Other Electives Courses

### Advanced Yearbook Production

Length: 1 trimester  
 Typical Grade Level: 11, 12  
 Prerequisites: Yearbook Production  
 Credit: 0.5

Advanced Yearbook Production is a continuation of Yearbook Production. Advanced students are appointed leadership roles and editorships where they are assigned duties in all aspects of yearbook production (highlighting, editing and decision-making responsibilities). A large portion of the second quarter grade is based on marketing, the selling of yearbooks and yearbook advertising. Up to three summer meetings may be included in coursework.

### College Preparation Study Skills

Length: 1 trimester  
 Typical Grade Level: 11, 12  
 Prerequisites: None  
 Credit: 0.5

College Preparation Study Skills is a reading strategy course designed for students interested in pursuing a two-year or four-year college education. Students will explore various learning styles, will learn how to best utilize their own learning styles and will become more skillful at solving problems. Topics covered in this course include time management, learning styles, alternative note taking strategies, surveying strategies, questioning techniques, vocabulary building strategies, reading rate flexibility, memory strategies, test taking strategies, advanced library skills and material application.

### Learning Center for Credit

Length: 1 trimester  
 Typical Grade Level: 9, 10, 11, 12  
 Prerequisites: Staff recommendation  
 Credit: 0.5

Learning Center for Credit provides structured support for a targeted group of students, giving them the option to earn credit while building school success skills and demonstrating that they can apply them to their classes/ coursework. This course will offer students tips on how to maximize learning potential through time management, goal setting, test preparation, attitude, communication, organization and basic academic skills that will help them experience greater success in their classes. It will be personalized to support student needs. Students who satisfactorily complete this course will have the opportunity to earn 0.5 credits per trimester, with a maximum of 1 credit allowed. This class will be graded on a credit/no credit basis. NOTE: This class is not included in calculating GPA or Class Rank.

### **Peer Tutoring**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: None  
Credit: 0.5

Peer Tutoring is recommended for students who would like to provide additional support within the classroom. Students will work with teachers and have the opportunity to work as a peer tutor in the high school, middle school, or elementary schools. Students can be a peer tutor for one or two hours a day. This class will be graded on a pass/ fail basis. NOTE: This class is not included in calculating GPA or Class Rank.

### **Technology Integration Squad**

Length: 1 trimester  
Typical Grade Level: 10, 11  
Prerequisites: Approved Application  
Credit: 0.5

Technology Integration Squad is recommended for students who work well in small groups and would like to participate in training teachers and students in tech use, preparing materials for technology projects, creating tutorials and screencasts and being part of a technology problem-solving team. Approximately one to three students join the Squad each year and students are expected to participate through senior year. Students are expected to meet daily during Resource and meet outside of school hours (virtually or in person) as required to complete tasks and one Saturday per month for "Ask a Geek" sessions. Applicants need to possess the following traits: a strong personal interest in technology, strong technology skills with a variety of tools and applications, the ability to work independently and creatively to problem-solve, strong communication skills, the ability to work well in small group situations, strong leadership skills and the ability to provide instruction to groups of faculty members, students and community members. Interested students need to complete an application (and possible interview) process. For application go to: <http://goo.gl/iQDiA>. A maximum of one credit can be earned. NOTE: This class is not included in calculating GPA or Class Rank.

### **Work Experience**

Length: 1 trimester  
Typical Grade Level: 12  
Prerequisites: Job Skills and Career Exploration, 15.5 credits tri 1 & 18.5 credits tri 2  
Credit: 0.5

Work Experience is designed for twelfth grade students who would like the opportunity to pursue a particular career through participation in a work experience program. For one or two semesters, students may be released from school for one or two class periods to work at a school-supervised work site arranged by the student and approved by the program coordinator. Students and parents who participate in this program are required to review the expectations and guidelines of this program and to sign contracts agreeing to abide by the guidelines. Students will be applying the skills learned in the Job Skills and Career Exploration course to their work experiences. Note: This class is not included in calculating GPA or Class Rank.

### **Yearbook Production**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Freshman English  
Credit: 0.5

Yearbook Production is recommended for students who would like to develop the high school yearbook that communicates the history of the year both photographically and in written form. This course emphasizes skills in technology such as digital cameras, current graphic design and photo editing software, as well as desktop publishing. Students will become proficient in marketing, graphic communication, photography and written communication. Deadline work is imperative. Students will study legal issues, layout and design concepts, copy and caption writing, cropping, proofreading, graphic communication and current technology.

### **Youth Apprenticeship**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Coursework in specific area and application  
Credit: 0.5

Youth Apprenticeship is recommended for students who wish to be employed in a specific area during the school year. Students have the opportunity to complete a one or two-year apprenticeship and will earn a State competency-based skill certification and possible advanced standing for technical college. NOTE: This class is not included in calculating GPA or Class Rank.

# Physical Education and Health

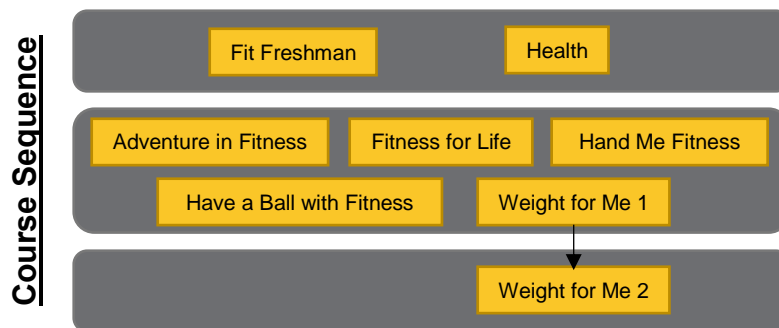
## *GENERAL INFORMATION*

### Graduation Requirement:

**9<sup>th</sup> grade: 0.5 credit (PE), 0.5 credit (Health)/10<sup>th</sup> grade: 1 credit (PE)/11<sup>th</sup> grade: 1 credit (PE)**

- Elective courses **cannot** be repeated for credit. All courses will incorporate the use of the cardio fitness room and Fitnessgram evaluation.
- If a student is exempt from Physical Education for an entire trimester, an approved doctor's excuse must be on file in the counseling office. In such a situation, the graduation requirement will **not** be waived. The student will need to fulfill the graduation requirement another trimester.
- Students requesting temporary exemption from Physical Education (1-4 weeks) must notify their teacher and the counseling office so that arrangements are made for them to report to either the library or study hall. Alternate work will be assigned so that credit may be earned. It is the student's responsibility to complete the assigned work on schedule. Students will be assessed field trip fees for the **Adventure in Fitness** class.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Physical Education Courses	# of Trimesters
Adventure in Fitness	1(1 <sup>st</sup> )
Fit Freshman	1
Fitness for Life	1
Hand Me Fitness	1
Have a Ball with Fitness	1
Health	1
Weight for Me 1	1
Weight for Me 2	1
<b>DEPT CONTACT: Mrs. Linda Dodge</b>	



## Physical Education and Health Courses

### Adventure in Fitness

Length: 1 trimester  
 Typical Grade Level: 11, 12  
 Prerequisites: Fit Freshman  
 Credit: 0.5

Adventure in Fitness is designed for students who are interested in adventure education. Students will improve skills including problem-solving, cooperation, communication, and team building. Course activities include archery, orienteering, group initiatives, cooperative games, mountain biking, wall climbing, and group dance. This course is only offered in the trimester 1 and is mostly held out-of-doors.

### **Fit Freshman**

Length: 1 trimester  
Typical Grade Level: 9  
Prerequisites: None  
Credit: 0.5

Fit Freshman emphasizes health and fitness components that demonstrate how present choices have an impact on future wellness and overall health. Throughout the trimester, students will focus on each component and analyze how it will help them live a long, healthy, active life.

### **Fitness for Life**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Fit Freshman or dept consent  
Credit: 0.5

Fitness For Life is a continuation of the Fit Freshmen class. Fitness For Life explores the many different types of lifestyle enhancement equipment that students may come in contact with after leaving high school and pursuing fitness activities on their own. Students take an active role in creating their own personalized fitness plans and will learn the basic principles of flexibility, strength, muscular endurance, body composition, cardiovascular endurance, healthy lifestyle choices, and stress management.

### **Hand Me Fitness**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Fit Freshman or dept consent  
Credit: 0.5

Hand Me Fitness emphasizes activities that develop eye-hand coordination while elevating heart rate. Health related fitness activities and fitness assessments will be incorporated into this class. Activities will include badminton, table tennis, pickle ball, floor hockey, lacrosse, eclipse ball, tennis, and golf.

### **Have a Ball with Fitness**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Fit Freshman or dept consent  
Credit: 0.5

Have A Ball With Fitness is designed for students who want to participate in team games with a focus of being players, coaches, scorekeepers, and statisticians. This course will improve skills while focusing on leadership, sportsmanship, and teamwork. Health related fitness activities and fitness assessments will be incorporated into this class. Activities include basketball, softball, flag football, soccer, volleyball, team handball, and speedball.

### **Health**

Length: 1 trimester  
Typical Grade Level: 9  
Prerequisites: None  
Credit: 0.5

Health emphasizes personal and community health that demonstrate how present choices have an impact on future wellness. Throughout the trimester, students will focus on the concept of acquiring a strong overall health status. Major units include mental/emotional health, family/social health, human growth and development, substance use and abuse, nutrition and diet, prevention and control of disease, and environmental factors affecting health.

### **Weight for Me 1**

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Fit Freshman  
Credit: 0.5

Weight For Me 1 is designed for students who are interested in a comprehensive weight training program that will improve strength, speed, flexibility, and agility. Students will learn different opposing muscle groups and how to properly train to increase their strength within these groups. Students will then create a weight training program based on their needs and wants. The program will be modified throughout the trimester to best fit the needs of the student. NOTE: This course is also offered zero hour.

### **Weight for Me 2**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Weight for Me I  
Credit: 0.5

Weight For Me 2 is an extension of the Weight For Me 1 course. Students will create and implement their own personal weight training program and assess their program goals. This course includes personal program planning, strength ball training, medicine ball training, cardio fitness and weight training. The program will be modified throughout the trimester to best fit the needs of the student. NOTE: This course is also offered zero hour.




# Project Lead The Way

## *GENERAL INFORMATION*

**Graduation Requirement: None**

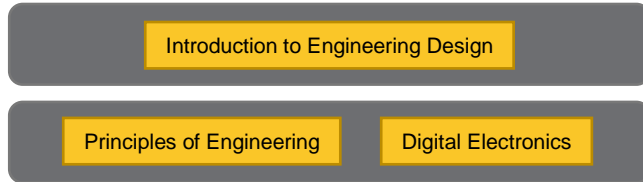
Project Lead The Way (PLTW) is the leading provider of rigorous and innovative STEM (science, technology, engineering and math) education curricular programs used in schools. As a 501(c)(3) charitable organization, PLTW exists to prepare students for the global economy through its world-class curriculum, high quality professional development, and an engaged network of educators, students, universities, and professionals. PLTW's comprehensive curriculum has been collaboratively designed by PLTW teachers, university educators, engineering and biomedical professionals, and school administrators to promote critical thinking, creativity, innovation, and real-world problem solving skills in students. The hands-on, project based program engages students on multiple levels, exposes them to areas of study that they typically do not pursue, and provides them with a foundation and proven path to college and career success. Thousands of schools across the U.S. are currently offering PLTW courses to their students, including East Troy.

- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

PLTW Courses	# of Trimesters
Digital Electronics (DE) 	2
Introduction to Engineering Design (IED) 	2
Principles of Engineering (POE) 	2



**Course Sequence**



## Project Lead The Way Courses

### Digital Electronics (DE)

**Length:** 2 trimesters  
**Typical Grade Level:** 11, 12  
**Prerequisites:** IED or POE  
**Credit:** 1.0



Digital Electronics is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the Digital Electronics course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. Students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process



## Introduction to Engineering Design (IED)

**Length:** 2 trimesters

**Typical Grade Level:** 9, 10, 11, 12

**Prerequisites:** None

**Credit:** 1.0



Introduction to Engineering Design is designed to show students the fun side of engineering. This course introduces students to the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3-D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook and communicate solutions to peers and members of the professional community. Students will work in collaborative teams and individually throughout the course. Students will learn creative problem solving, research and development techniques.

## Principles of Engineering (POE)

**Length:** 2 trimesters

**Typical Grade Level:** 11, 12

**Prerequisites:** IED or Algebra, Geometry and recommendation

**Credit:** 1.0



Principles of Engineering is the second of two foundation courses in the Project Lead The Way high school engineering program. This course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students develop problem-solving skills by tackling real-world engineering problems and will also learn how to document their work and communicate their solutions to their peers and members of the professional community. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Students will explore how the mechanical advantages gained by using simple machines such as wheels, gears, cams, and linkages are used to produce powerful and sophisticated industrial machines and equipment.









# Science

## GENERAL INFORMATION

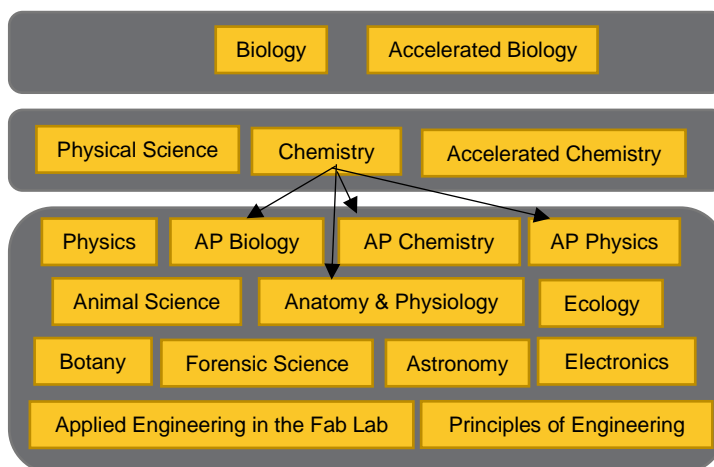
### Graduation Requirement: 3 credits (1 life science credit, 1 physical science credit, 1 elective credit)

- Students entering a science-related field are advised to take Biology, Chemistry, and Physics before taking advanced science courses. However, students choosing Physics are not required to take Chemistry.
- If you plan to pursue post-secondary education, technical colleges recommend and the UW system requires 3 years of natural science such as Biology, Chemistry, or Physics.
- Students who have strong science goals for post-high school education, with high grades in 8th grade science and math classes, may take both Biology and Chemistry as a freshman. This would give the student an opportunity to complete a very strong high school science foundation. If interested in taking both classes as a freshman, the student must receive department consent.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Science Courses	# of Trimesters
Accelerated Biology	2
Accelerated Chemistry 	2
Anatomy & Physiology	2
Animal Science (New!)	1
AP Biology 	2(1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Chemistry 	2(1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Physics I 	2(1 <sup>st</sup> & 2 <sup>nd</sup> )
Applied Engineering in the Fab Lab	1
Biology	2
Botany	1
Chemistry	2
Ecology	1
Electronics	1
Forensic Science	1
Introduction to Astronomy	1
Physical Science	2
Physics 	2
Principles of Engineering 	2
<b>DEPT CONTACT: Mrs. Kristin Michalski</b>	



**Course Sequence**



# Science Courses

## Accelerated Biology

Length: 2 trimesters  
Typical Grade Level: 9  
Prerequisites: 8<sup>th</sup> grade recommendation or department consent  
Credit: 1.0

Accelerated Biology is highly recommended for a student planning on taking AP Chemistry and/or AP Biology or thinking about going into the science or medical field. This course will cover the same concepts taught in regular biology, but is taught at an accelerated pace with more opportunity for independent thinking. A deeper understanding of biological principles will be stressed.

## Accelerated Chemistry

Length: 2 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: Earning an "A" or "B" in Biology & Algebra  
Credit: 1.0



Accelerated Chemistry is highly recommended for a student planning on taking AP Chemistry and/or AP Biology or thinking about going into the science or medical field. This course will cover the same concepts taught in regular chemistry, but is taught at an accelerated pace with more opportunity for independent thinking. A deeper understanding of chemical principles will be stressed. Scientific calculators are required.

## Anatomy and Physiology

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: Biology, Chemistry, and Algebra  
Credit: 1.0

Anatomy and Physiology encompasses the complex structure and function of the human body. The major organ systems (integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproductive) will each be discussed at the biochemical, tissue, organ, system, and organismal levels. Students will be able to describe structures and their functions in detail, and discuss the clinical applications of their knowledge. This course includes dissections and medical/clinical discussions of digestive and reproductive functions.

## Animal Science (New!)

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5

Animal Science is an advanced agriculture class for science credit. This course will look deeper at the hierarchy, structure, and functions of animals. Students will explore animal anatomy and physiology of various breeds, conduct research trials, and use various hands-on learning labs focused on: cell structure, muscle structure, and veterinary medicine. Students will also experience various field trips and speakers.

## AP Biology

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: Earning an "A" or "B" in Biology & Chemistry  
Credit: 1.0



Advanced Placement Biology is recommended for students who would like the opportunity to earn college credit or placement in the sciences. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. College level workload and expectations will be maintained throughout the year while students participate in lectures, projects, and inquiry-based laboratories utilizing biotechnology equipment. Basic biochemistry will lay the groundwork for the study of metabolism, nutrition, energy pathways and transport of materials in the cells as it relates to the function of the organism. Understanding the nature of the gene and its role in genetic engineering will be investigated.

## AP Chemistry

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: Chemistry (Acc Chemistry Recommended)  
Credit: 1.0



Advanced Placement Chemistry is recommended for students who would like the opportunity to earn college credit or placement in the sciences. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. This course provides students with training for such knowledge and skills through guided inquiry labs, a more focused curriculum on content relevant to today's problems, and an exam that assesses students' mental models of the particulate nature of matter instead of memorization of rules to understand chemistry.

## AP Physics I

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 11, 12

Prerequisites: Biology, Chemistry, Physics recommended, concurrent enrollment in Algebra 2 or higher, or department consent

Credit: 1.0



Advanced Placement Physics 1 is recommended for students who would like the opportunity to earn college credit or placement in the sciences. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement Physics 1 (algebra-based) exam. AP Physics 1 is organized around six “big ideas” that bring together the fundamental science principles and theories of general physics. These topics will encourage students to think about physics concepts as interconnected pieces of a puzzle of which the solution is how the real world around them actually works. Students will participate in inquiry-based explorations of topics to gain a more conceptual understanding of physics concepts. Students will spend less of their time in traditional formula-based learning and more of their effort will be directed to developing critical thinking and reasoning skills.

## Applied Engineering in the Fab Lab

Length: 1 trimester

Typical Grade Level: 11, 12

Prerequisites: Algebra, Freshman English, How to Make Almost Anything in the Fab Lab or recommendation

Credit: 0.5

Applied Engineering in the Fab Lab is recommended for self-motivated students with a strong interest in science, math, engineering, or industrial design. Students will use their science and engineering design knowledge to address their choice of design challenge via flexible pacing and a blend of hands-on and theoretical learning.

## Biology

Length: 2 trimesters

Typical Grade Level: 9

Prerequisites: None

Credit: 1.0

Biology emphasizes scientific investigations in which students gather, interpret, analyze, and present final conclusions regarding data. Students will demonstrate a working knowledge of the chemical/structural basis of living things, the anatomy/physiology of the cell, growth/reproduction of the cell, cellular respiration and photosynthesis, genetics, ecology, and evolution. Students will perform controlled scientific investigations and use technology to obtain and model data for graphical analysis.

## Botany

Length: 1 trimester (1<sup>st</sup>)

Typical Grade Level: 10, 11, 12

Prerequisites: None

Credit: 0.5

Botany is a project-based, advanced agriculture course with a focus on plants, for science credit. Students will study plant anatomy (parts), plant physiology (function), horticulture (naming and classifying), plant ecology (interactions), plant propagation and reproduction, growing media, nutrients, plant regulators, and hydroponics. Many different kinds of activities combine to help the student build knowledge and skills in biological concepts as they relate to plants. Students will have the opportunity to introduce a problem based learning project utilizing plants that they grow, care for, and manage in the ETHS greenhouse.

## Chemistry

Length: 2 trimesters

Typical Grade Level: 10, 11, 12

Prerequisites: Algebra and Biology and dept consent

Credit: 1.0

Chemistry is recommended for the college-bound student entering any field related to science. Students will learn about the chemistry lab, the language of chemistry, atomic theory, stoichiometry, and gas laws. Scientific calculators are required.

## Ecology

Length: 1 trimester

Typical Grade Level: 11, 12

Prerequisites: Biology or Accelerated Biology

Credit: 0.5

Ecology explores the various interactions of organisms and their environment. Students will investigate population, community, and species dynamics and how human activities impact the environment. Lab activities and field studies will emphasize data collection techniques, data analysis, and the application and connection of scientific concepts.

## Electronics

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Algebra  
Credit: 0.5

Electronics begins with the theory of electrical circuits and progressing to the theory of electronics. Activities include building and analyzing simple circuits progressing to constructing simple electronic devices. This course is an in-depth study of the components used in electronic circuits and how these components are connected together in a circuit to form power supplies, amplifiers, and other electronic devices. Lab participation is required.

## Forensic Science

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Biology Credit and Physical Science/Chemistry Credit  
Credit: 0.5

Forensic Science provides an introduction to the crime scene investigation techniques used by professional forensic scientists. In this inquiry-based course students will collect data, analyze data, and draw conclusions about various types of forensic evidence including DNA, hair and fiber, fingerprint, decomposition, and blood.

## Introduction to Astronomy

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: Biology Credit and Physical Science/Chemistry Credit (Algebra recommended)  
Credit: 0.5

Introduction to Astronomy is recommended for students with an interest in space science. This course will provide the foundation necessary to understand the formation and evolution of the universe, galaxies, stars, and solar systems by investigating and applying the laws of physics. Note: This course cannot be used to satisfy the physical science requirement.

## Physical Science

Length: 2 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: Algebra or Biology and recommendation  
Credit: 1.0

Physical Science is a lab-based course designed to enhance students' conceptual foundation and investigative skills in the physical sciences which includes but not limited to the concepts of chemistry, physics, laboratory techniques, and problem solving.

## Physics

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: Algebra  
Credit: 1.0



Physics is recommended to college-bound students. This course covers the branch of physics called mechanics (the study of mass, force, energy, motion, and related topics) and the branch of physics called wave motion (wave motion includes a study of the mechanics of wave motion with applications in sound and light). Scientific emphasis will be on problem solving. Participation in lab activities are required. Scientific calculators are required.

## Principles of Engineering (POE)

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: IED or Algebra, Geometry and recommendation  
Credit: 1.0








Principles of Engineering is the second of two foundation courses in the Project Lead The Way high school engineering program. This course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students develop problem-solving skills by tackling real-world engineering problems and will also learn how to document their work and communicate their solutions to their peers and members of the professional community. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Students will explore how the mechanical advantages gained by using simple machines such as wheels, gears, cams, and linkages are used to produce powerful and sophisticated industrial machines and equipment.

# Social Studies

## GENERAL INFORMATION

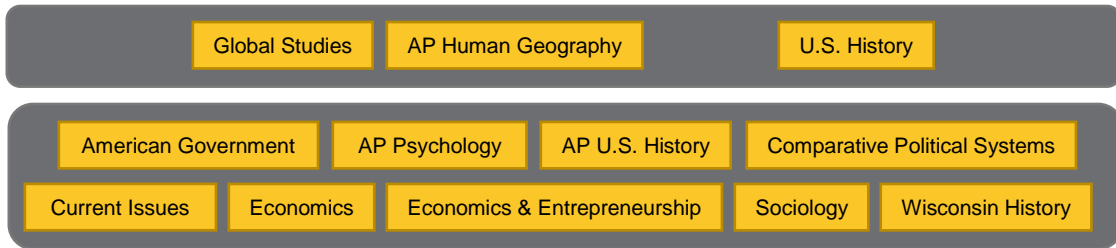
**Graduation Requirement: 3 credits**

- Students who are considering college would benefit from social studies credits beyond the minimum requirement.
- The Wisconsin Department of Public Instruction recommends that students planning to attend a four-year college/university or technical college take 3 years of social studies.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

Social Studies Courses	# of Trimesters
American Government	1
AP Human Geography 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Psychology 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
AP U.S. History 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
Comparative Political Systems 	1
Current Issues 	1
Economics	1
Economics & Entrepreneurship	1
Global Studies	2
Sociology	1
U.S. History (A and B)	2
Wisconsin History	1 (3 <sup>rd</sup> )
<b>DEPT CONTACT: Mrs. Marisa Piper</b>	



**Course Sequence**



## Social Studies Courses

### American Government

Length: 1 trimester  
 Typical Grade Level: 11, 12  
 Prerequisites: 1 social studies credit  
 Credit: 0.5

American Government explores the depth of the United States government and political system. Students will study government institutions, political processes, and their role of being a productive citizen within the framework of a federal system. Course topics will include: Foundations and Functions of Government, Charters of Freedom, Institutions (Legislative, Executive, Judicial Branches), State and Local Government, You and the Law, and Comparative Government.

## AP Human Geography

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 9, 10, 11, 12

Prerequisites: recommendation or department consent

Credit: 1.0



AP Human Geography is recommended for accelerated students interested in how the human race effects geography. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. Students will be introduced to the systematic study of patterns and processes that have shaped human understanding, use and the alteration of Earth's surface. Students will learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. Students will also learn about the methods and tools geographers use in their research and applications. NOTE: Students may take AP Human Geography in place of Global Studies pending Department approval.

## AP Psychology

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 11, 12

Prerequisites: None

Credit: 1.0



Advanced Placement Psychology is recommended for students interested in the field of psychology and enjoys the challenges of a rigorous academic curriculum. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics and methods psychologists use in their science and practice. This course requires intensive study, active participation, and a significant time commitment. Topics will be covered that are both challenging and controversial at times. A mature, respectful approach to discussion and content is expected at all times.

## AP U.S. History

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 11, 12

Prerequisites: "A" or "B" in Global Studies or AP Human Geography or department consent

Credit: 1.0



Advanced Placement United States History is recommended for motivated students highly interested in US History. This course is designed to maintain a college-level pace and cover material according to the requirements of Advanced Placement. Students will read and analyze historical writing, reflect upon historical evidence, participate in discussion, and write about central themes and ideas in America's past. This course centers on issues such as: independence, emerging democracy, slavery, westward settlement, imperial expansion, economic depression, war, and technological change. Students will learn how to assess historical materials, relevance, and reliability in relation to current historical scholarship. By the end of the course, students should be able to arrive at informed decisions and support those evaluations clearly and persuasively in an essay format.

## Comparative Political Systems

Length: 1 trimester

Typical Grade Level: 11, 12

Prerequisites: "A" or "B" in social studies credit or department consent

Credit: 1.0



Comparative Political Systems (CPS) explores how various political systems, including the United States, compare to each other. A strong comprehension of United States and world history is needed due to the rigorous standards and content of the course. Infused throughout the units of study are five political themes: ideology, institution, leadership, decision-making, and citizenship. Besides the U.S. political system, students examine and evaluate the themes through the study of four other countries.

## Current Issues

Length: 1 trimester

Typical Grade Level: 11, 12

Prerequisites: "A" or "B" in Global Studies or AP Human Geography and U.S. History or department consent

Credit: 0.5



Current Issues is recommended for students who would like to understand and explore local, national, international, social, and political issues in a meaningful way while creating an awareness of the world around themselves. Students will use critical and analytical thinking skills to examine and evaluate the significant problems that have faced the United States citizenry on a state, national, and international scope. This course will be student centered, similar to a college seminar class, where the instructor acts as a facilitator. The use of Google Classroom will be an important organizational tool, as well as other internet resources.



## **Economics**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: None  
Credit: 0.5

Economics is recommended for all students as to develop a solid understanding of the basic principles and practices that underlie the economic system of the United States and the world. Students will learn how economics plays a role in changes in the prices of oil, recession, and inflation. Money, banking, business cycles, supply & demand, production, personal finance, and types of investments are among the topics explored. A stock market simulation will provide students with a first-hand experience in consumption, choice, and consequences. Students will explore current economic issues and discuss them within the context of our course.

## **Economics and Entrepreneurship**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: None  
Credit: 0.5

Economics and Entrepreneurship is recommended for the student who would like to understand the basic principles and practices of economics and learn how to apply them to entrepreneurship. Students will apply economic principles to the creation of a small business. Students will participate in a combination of real world and hands-on experiences as part of a "small business", including management, production and marketing of a product. Students will also learn essential economic understandings through curriculum and experience.

## **Global Studies**

Length: 2 trimesters  
Typical Grade Level: 9, 10  
Prerequisites: None  
Credit: 1.0

Global Studies is recommended to all students as a means to explore past and present world events. Students will explore trends in history and analyze and evaluate the growth of civilizations for patterns of geographic, political, economic, religious, legal, social, military, diplomatic and cultural development. This course is structured in 9 chronological/thematic units: World Religions, Government Systems, Imperialism, Revolutions, World War I, World War II, Cold War, Modern Asian Societies, and Conflict & Crisis. This course will equip students with the knowledge and skills to fully participate as a productive citizen in a changing world.

## **Sociology**

Length: 1 trimester  
Typical Grade Level: 11, 12  
Prerequisites: 1 social studies credit  
Credit: 1.0

Sociology is recommended to students who wish to study of groups and individuals within society. Major themes in sociological thinking include the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Students will develop critical thinking by revealing how everyday actions are directly or indirectly influenced by the society in which we live and the groups we associate with.

## **United States History**

Length: 2 trimesters  
Typical Grade Level: 9, 10  
Prerequisites: None  
Credit: 1.0

United States History (A and B) provides a broad view of the United States from Native American culture to the present. Students will develop historical thinking skills: chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis. Students will build a behavioral understanding of the United States from a historical perspective beginning with thematic study of Native American history and the history of slavery and race in the US. The use of historical themes will be used: Identity, Work, Exchange and Technology, Peopling, Politics, and Power, America in the World, Environment and Geography, Ideas, Beliefs, and Culture. The continued application of social studies analytical skills along with class activities, tests, quizzes, and projects are required for successful completion of this course.

## **Wisconsin History**

Length: 1 trimester (3<sup>rd</sup>)  
Typical Grade Level: 11, 12  
Prerequisites: U.S. History  
Credit: 0.5

Wisconsin History is recommended to students thinking of furthering their education in history and/or elementary education. This innovative and progressive course offers opportunities and experiences in interpretive history, seminar style, and historical analysis of a variety of aspects of the state of Wisconsin. Students will participate in an interpretive history project at Old World Wisconsin as a portion of their final course evaluation. Students will explore and interpret their knowledge of the human past in view of present day experiences to recognize and appreciate the relationship between the past and the future. Units of study include: Wisconsin Geography, Wisconsin Native Americans, Colonial Wisconsin to Statehood, Wisconsin Civil War to Present, and Interpretive History. Field trips to Old World Wisconsin, the state capital, and the Octagon House are expected.

# Special Education

## GENERAL INFORMATION

- The Individuals with Disabilities Education Act (IDEA) requires districts to provide each child with a disability Free Appropriate Public Education (FAPE) in the Least Restrictive Environment through an Individualized Education Plan (IEP).
- Special Education is referred to as “specially designed instruction, at no cost to the parents, to meet the unique needs of a child with a disability.”
- The East Troy Community School District provides a wide range of services and supports to students who have been identified with special education disabilities in order to meet their unique needs.
- We work hard to ensure students with disabilities have the same access to all of the curricular and extra-curricular opportunities as their non-disabled peers.

## EAST TROY HIGH SCHOOL OFFERINGS

- At East Troy High School, our special education team is proud to offer several distinctive learning opportunities for students with disabilities including specialized academic instruction, independent life skills and careers/ foundational skills in order to ensure that each child is College and Career Ready when they graduate from High School.
- Services available to qualified students with educational needs may include the following options:
  - **Self-contained courses:** Specific courses taught only to groups of students with educational needs. Instruction is delivered by a certified special education teacher. Credit is awarded.
  - **Resource room:** Tutorial assistance provided for students with educational needs during their study hall by a certified special education teacher. No credit is awarded

Special Education Courses	# of Trimesters
Career Skills	1
Community Experience	1
Job Skills	1
Learning Strategies	1
Practical Life Skills	1
Pre-Employment	1
<b>CONTACT: Mrs. Kate Harder</b>	

Special Education courses are offered to those students who have been specifically identified and placed in the program.

## CONTACT INFORMATION

If you have concerns regarding your child’s social, emotional, behavioral, or academic progress and believe that they may have a special education disability, please contact the school psychologist or school principal.

Should you have additional questions regarding special education courses or programming options within the District, please contact Kate Harder, Director of Special Education & Pupil Services.










- **Respect**
- **Responsibility**
- **Integrity**

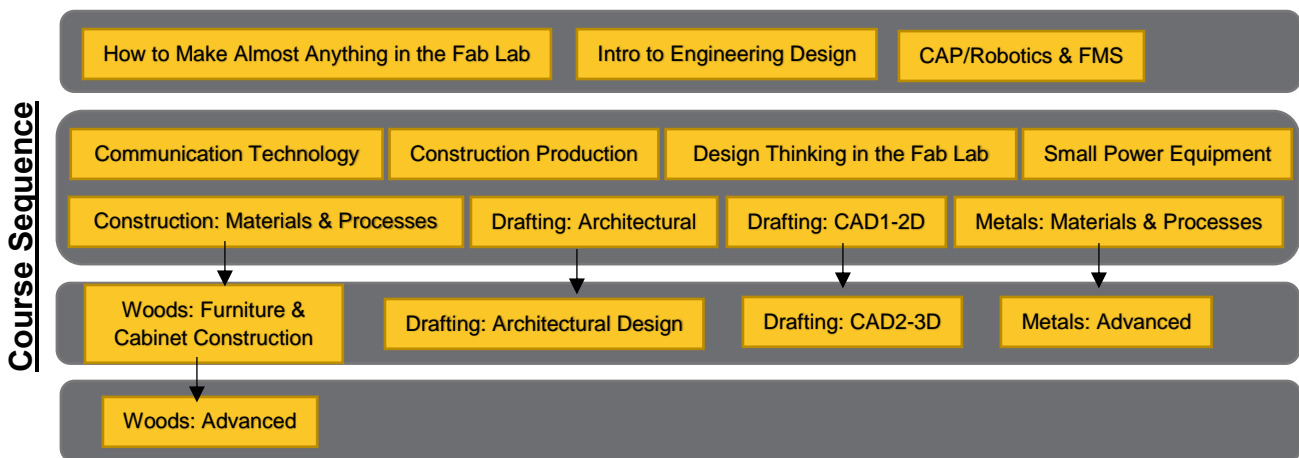
# Technology and Engineering

## GENERAL INFORMATION

### Graduation Requirement: None

- Courses in technology and engineering introduce skills needed for acceptance into the State's Youth Apprenticeship program or successful completion of technical credits at a post-secondary school.
- These courses expose students to industry careers and provide a more in-depth study in manufacturing, transportation, communication, and construction through hands-on activities.
- Students studying computer aided design (CAD) and drafting courses are introduced to the drawing skills needed by engineering majors at post-secondary schools.
- Select courses require a course fee for materials/supplies.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets

Technology & Engineering Courses	# of Trimesters
CAP/Robotics & FMS 	1
Communication Technology	1
Construction Production	2 (2 <sup>nd</sup> & 3 <sup>rd</sup> )
Construction: Materials & Processes	1
Design Thinking in the Fab Lab	1
Drafting: Architectural	1
Drafting: Architectural Design	1
Drafting: CAD1 - 2D 	1
Drafting: CAD2 - 3D 	1
How to Make Almost Anything in the Fab Lab	1
Introduction to Engineering Design (IED) 	2
Metals: Advanced 	1 (2 <sup>nd</sup> or 3 <sup>rd</sup> )
Metals: Materials and Processes	1 (2 <sup>nd</sup> or 3 <sup>rd</sup> )
Small Power Equipment 	1
Woods: Advanced	1
Woods: Furniture & Cabinet Construction 	1
<b>DEPT CONTACT: Mr. Jack Hart</b>	



# Technology and Engineering Courses

## **Communication Technology**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Sophomore-How to Make Almost Anything in the Fab Lab (Jr/Sr-None)

Credit: 0.5

Communication Technology is recommended to students who would like to gain hands-on experience in many forms of broadcasting while using cutting edge technology and software. Students will broadcast events such as sporting events and daily announcements. Areas of emphasis include: radio broadcasting, digital video, Flash animation, and computer graphic design. Students will design and create several projects while learning the Adobe Photoshop, Adobe Illustrator, Adobe Premiere, iMovie, Flash, Robolab, and Flight Simulator software programs.

## **Computer Assisted Programming/Robotics & FMS**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: None

Credit: 0.5



Computer Assisted Programming/Robotics and FMS is a study of computer assisted programming for robotics and Flexible Manufacturing Systems (FMS). Students will use microcomputers to program robots and a CAD/CAM system for program creating, editing, verification, and interfacing. The student will interface the CNC program with the program.

## **Construction: Materials and Processes**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Sophomore-How to Make Almost Anything in the Fab Lab (Jr/Sr-None)

Credit: 0.5

Construction: Materials and Processes is recommended to students interested in woodworking, construction, apprenticeship or the technical field. This course provides a more in-depth study of construction methods, machine and tool use, safety, and project design and planning. This course addresses blueprint reading, estimating materials, masonry, floor framing, and other basic construction applications. Students will design, draw plans, and fabricate projects increasing in difficulty to gain exposure to varying techniques and methods of tool operation. To receive a Career Connections Level 1 certificate from Carpenters International Training Fund for this course you must have teacher approval and earn a final grade of 80% or higher.

## **Construction Production**

Length: 2 trimesters (2<sup>nd</sup> & 3<sup>rd</sup>)

Typical Grade Level: 10, 11, 12

Prerequisites: How to Make Almost Anything in the Fab Lab

Credit: 1.0

Construction Production emphasizes the procedures and techniques used in building a structure. Students will experience a blend of classroom theory and hands-on activities and experience many parts of the building trades including wall framing, roof framing, building codes, windows and doors, finishing techniques, scaled model work and full-size building. Students will study and review blueprint reading, math applications, surveying, and estimating components while learning how to use hand tools and other equipment common in the building trades. To receive a Career Connections Level 2 certificate from Carpenters International Training Fund for this course you must have teacher approval and earn a final grade of 80% or higher.

## **Design Thinking in the Fab Lab**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Algebra, Freshman English, How to Make Almost in the Fab Lab or recommendation

Credit: 0.5

Design Thinking in the Fab Lab is a highly collaborative course and is recommended for creative students with a strong work ethic and an interest in engineering, design, or product development. Students will apply design principles from the Design Thinking engineering design process to identify, define, and solve problems in their own lives, their home, and their community.

## **Drafting: Architectural**

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: How to Make Almost in the Fab Lab or Introduction to Engineering Design

Credit: 0.5

Drafting: Architectural focuses on interpreting and making a set of drawings needed to build a structure. Subjects covered in this class include construction materials, procedures, reviewing, drawing floor plans, elevations, wall sections, 2-point perspective, and basement drawings.

### Drafting: Architectural Design

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: Drafting: Architectural or department consent  
Credit: 0.5

Drafting: Architectural Design emphasizes the creation of an energy efficient building. Subjects covered in this class include solar energy, earth shelter, energy efficiency, design concepts, CAD, presentation drawing, and model work.

### Drafting: CAD1-2D

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None  
Credit: 0.5



Drafting: CAD1-2D is recommended for students who would like to gain the skills necessary to compete in the 21st century using one of the industry's top software programs. This course emphasizes the ability to interpret technical drawing as well as produce 2-dimensional technical drawings of objects. Students will learn measurement, geometric construction, commands and techniques of dimensioning, types and purposes of three view and pictorial drawings.

### Drafting: CAD2-3D

Length: 1 trimester  
Typical Grade Level: 10, 11, 12  
Prerequisites: None (Drafting: CAD1-2D recommended)  
Credit: 0.5



Drafting: CAD2-3D is recommended for students who would like to gain the skills necessary to compete in the 21st century using one of the industry's top software programs. This course emphasizes 2-dimensional drawings that are converted into 3-dimensional objects. Students will learn how to extrude and cut objects to create a 3-dimensional figure. Students will use sketching to create dimensioned working drawings, sectional drawings, and advanced assembly drawings. They will also learn how to revolve, loft, and sweep parts. By understanding these techniques, students can then create an assembled drawing using multiple parts.

### How to Make Almost Anything in the Fab Lab

Length: 1 trimester  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 0.5

How to Make Almost Anything in the Fab Lab is recommended for students who would like to utilize state of the art equipment to problem-solve and become a maker vs a consumer. Students will be introduced to each of the disciplines in technology education including the Fab Lab while exploring the engineering design process model. Technology students will use include: SolidWorks, laser cutter, 3D printer, vinyl cutter, mini-mill, CNC router, CNC plasma table. Students will also use multiple techniques to reverse engineer projects.

### Introduction to Engineering Design (IED)

Length: 2 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 1.0



Introduction to Engineering Design is designed to show students the fun side of engineering. This course introduces students to the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3-D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook and communicate solutions to peers and members of the professional community. Students will work in collaborative teams and individually throughout this course. Students will learn creative problem solving, research and development techniques.

### Metals: Advanced

Length: 1 trimester (2<sup>nd</sup> or 3<sup>rd</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: Metals: Materials and Processes  
Credit: 0.5



Metals: Advanced is designed as a continuation of Metals: Materials and Processes. The course consists of advanced projects in the areas of welding, machine tools, sheet metal fabrication, machining, and career study. Students will build on their knowledge of manufacturing careers, metallurgy, precision measurement, blueprint reading, metal shop safety, layout techniques, machining, engine lathe, vertical mill, sheet metal fabrication and bench metal techniques.

### Metals: Materials and Processes

Length: 1 trimester (1<sup>st</sup> or 2<sup>nd</sup>)  
Typical Grade Level: 10, 11, 12  
Prerequisites: Sophomore-How to Make Almost Anything in the Fab Lab (Jr/Sr-None)  
Credit: 0.5

Metals: Materials and Processes consists of rotations in the five basic areas of welding, machine tools, computer machining, sheet metal fabrication, and career study. Students will study arc welding, blueprint reading, precision measurement, metal shop safety, bench metal, the engine lathe, vertical mill, layout techniques, and sheet metal layout and fabrication.

### Small Power Equipment (formerly Small Engines)

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Sophomore-How to Make Almost Anything in the Fab Lab (Jr/Sr-None)

Credit: 0.5



Small Power Equipment is recommended to students interested in engines or entering a mechanical field. Students will learn the basic principles, construction, operation, application, and maintenance of small engines. Safe practice in the industrial environment and at home will be modeled and practiced. Completion of this course will equip the student with the knowledge and experience to be an educated consumer as well as for entry level positions at a small engine repair shop or to progress to more advanced training based on student's interest level. To receive a Yamaha certificate for this course you must have teacher approval and earn a final grade of 80% or higher.

### Woods: Advanced

Length: 1 trimester

Typical Grade Level: 11, 12

Prerequisites: Woods: Furniture and Cabinet Construction

Credit: 0.5

Woods: Advanced is designed as a continuation of Woods: Furniture and Cabinet Construction. Students will build on their knowledge of woodworking materials and processes. Students will be given more time, freedom, and independence in selecting, designing, and building larger and/or more complex projects.

### Woods: Furniture and Cabinet Construction

Length: 1 trimester

Typical Grade Level: 10, 11, 12

Prerequisites: Construction: Materials and Processes

Credit: 0.5









Woods: Furniture and Cabinet Construction is recommended for students interested in pursuing a career in woodworking, construction or a technical field. This course provides a more in-depth study of construction methods, machine and tool use, project design and planning, and construction of an intermediate level project. Students will study planning and design of projects, machine and tool safety and procedures, furniture and cabinet construction techniques, wood materials, finishing and refinishing, and lathe operation. Students will design, draw plans, and fabricate projects increasing in difficulty to gain exposure to varying techniques and methods of tool operation. A student fee is charged for materials used.

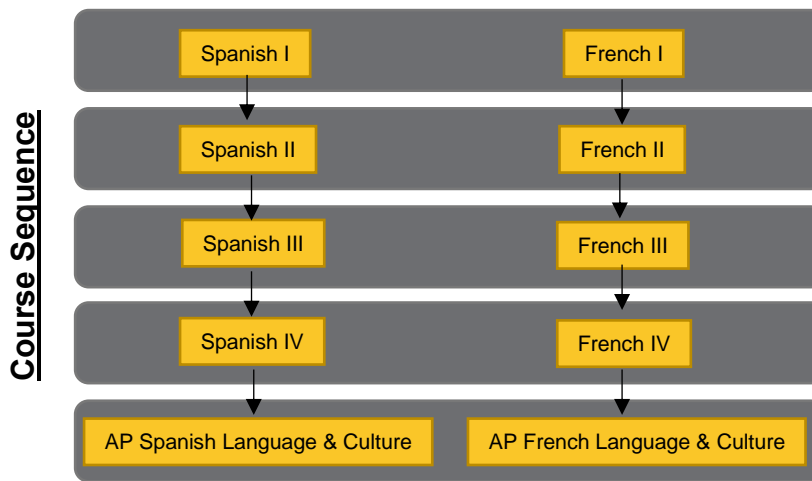
# World Language

## *GENERAL INFORMATION*

**Graduation Requirement: None**

- The Wisconsin Department of Public Instruction recommends at least two years of instruction in any one language for students planning to attend a four-year college or university. Two years of world language is required by some universities.
- World Language is recommended for students planning to enter a business field in a two-year technical college.
- By clicking any linked course title, you will be able to view the specific Course Overview which includes the course's Essential Understandings, Units, and Learning Targets.

World Language Courses	# of Trimesters
AP French Language and Culture 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
AP Spanish Language and Culture 	2 (1 <sup>st</sup> & 2 <sup>nd</sup> )
French I	2
French II	2
French III 	2
French IV 	2
Spanish I	2
Spanish II	2
Spanish III 	2
Spanish IV 	2
<b>DEPT CONTACT: Mr. Josh Herrell</b>	



## World Language Courses

### AP French Language & Culture

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 12

Prerequisites: "A" or "B" in French IV

Credit: 1.0



Advanced Placement French Language and Culture is recommended for students who would like the opportunity to earn college credit or placement. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. Students continue their study of advanced French grammar and communication skills. Emphasis is on acquiring a larger French vocabulary and mastery of grammar so the students can become fluent in speaking and proficient in writing. Students read and listen to a variety of selected materials, are exposed to significant French authors/literary movements, make formal oral presentations and write controlled compositions. New advanced grammatical components and vocabulary are added regularly. Students also discuss and study cultural information, daily life, customs, and traditions of French-speaking people.



## AP Spanish Language & Culture

Length: 2 trimesters (1<sup>st</sup> & 2<sup>nd</sup>)

Typical Grade Level: 12

Prerequisites: "A" or "B" in Spanish IV

Credit: 1.0



Advanced Placement Spanish Language and Culture is recommended for students who would like the opportunity to earn college credit or placement. This course is designed to maintain a college-level pace and cover material according to the requirements for taking the Advanced Placement exam. Students continue their study of advanced Spanish grammar and communication skills. Emphasis is on acquiring a larger Spanish vocabulary and mastery of grammar so the students can become fluent in speaking and proficient in writing. Students read and listen to a variety of selected materials, are exposed to significant Spanish authors/literary movements, make formal oral presentations and write controlled compositions. New advanced grammatical components and vocabulary are added regularly. Students also discuss and study cultural information, daily life, customs, and traditions of Spanish-speaking people.

## French I

Length: 2 trimesters

Typical Grade Level: 9, 10, 11, 12

Prerequisites: None

Credit: 1.0

French I is recommended for students who seek an introduction of the French language and cultures of the French-speaking world. This course provides an introduction to the four basic skill areas (listening, speaking, reading, and writing) through text, CDs, films, music, and other media. Emphasis is placed upon pronunciation, vocabulary acquisition, and basic grammatical concepts. The cultural practices, products, and perspectives of French-speaking countries are an integral part of every thematic unit. Essential understandings of this course are based on the Wisconsin's Model Academic Standards for Foreign Languages.

## French II

Length: 2 trimesters

Typical Grade Level: 9, 10, 11, 12

Prerequisites: "C" or better in French I

Credit: 1.0

French II is designed as a continuation of French I and is recommended for students who seek further proficiency in listening, reading, writing, and speaking French, in accordance with State and National Standards. Students continue to develop skills through conversation, vocabulary acquisition, structural drills, reading and writing exercises, and activities. This course allows students to continue their study of the cultures of French-speaking countries through readings, music, films, food, and other media.

## French III

Length: 2 trimesters

Typical Grade Level: 10, 11, 12

Prerequisites: "C" or better in French I and French II

Credit: 1.0



French III is designed as a continuation of French II and is recommended for students who seek intermediate proficiency in listening, reading, writing, and speaking French, in accordance with the State and National Standards. Through text, CDs and other media, the students learn more advanced grammar, vocabulary and communication skills, both oral and written. Increased familiarity with the culture of French-speaking countries is acquired through readings, films, foods, and music. Classes are conducted in French the majority of the time. Students are expected to complete readings, research and other independent work outside of class.

## French IV

Length: 2 trimesters

Typical Grade Level: 11, 12

Prerequisites: "C" or better in French III

Credit: 1.0



French IV is designed as a continuation of French III and is recommended for students who seek advanced proficiency in listening, reading, writing, and speaking French, in accordance with the State and National Standards. Students continue their study of advanced French grammar and communication skills. Emphasis is on acquiring a larger French vocabulary and mastery of grammar so the students can become fluent in speaking. Students read a variety of selected materials, are exposed to significant French authors/literary movements, make oral presentations, and write controlled compositions. Culture is emphasized through the study of authentic materials including readings, film, music, and other media. Classes are conducted in French the majority of the time. Students are expected to complete weekly readings, research and other independent work outside of class.

## Spanish I

Length: 2 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: None  
Credit: 1.0

Spanish I is recommended for students who seek an introduction of the Spanish language and cultures of the Spanish-speaking world. This course provides an introduction to the four basic skill areas (listening, speaking, reading, and writing) through text, CDs, films, music, and other media. Emphasis is placed upon pronunciation, vocabulary acquisition, and basic grammatical concepts. The cultural practices, products and perspectives of Spanish-speaking countries are an integral part of every thematic unit. Essential understandings of this course are based on the Wisconsin's Model Academic Standards for Foreign Languages.

## Spanish II

Length: 2 trimesters  
Typical Grade Level: 9, 10, 11, 12  
Prerequisites: "C" or better in Spanish I  
Credit: 1.0

Spanish II is designed as a continuation of Spanish I and is recommended for students who seek further proficiency in listening, reading, writing, and speaking Spanish, in accordance with the State and National Standards. Students continue to develop skills through conversation, vocabulary acquisition, structural drills, reading and writing exercises, and activities. This course allows students to continue their study of the cultures of Spanish-speaking countries through readings, music, films, food, and other media.

## Spanish III

Length: 2 trimesters  
Typical Grade Level: 10, 11, 12  
Prerequisites: "C" or better in Spanish I and Spanish II  
Credit: 1.0



Spanish III is designed as a continuation of Spanish II and is recommended for students who seek intermediate proficiency in listening, reading, writing, and speaking Spanish, in accordance with the State and National Standards. Through text, CDs, and other media, the students learn more advanced grammar, vocabulary and communication skills, both oral and written. Increased familiarity with the culture of Spanish-speaking countries is acquired through readings, films, foods, and music. Classes are conducted in Spanish the majority of the time. Students will read Spanish novels, complete research and other independent work outside of class

## Spanish IV

Length: 2 trimesters  
Typical Grade Level: 11, 12  
Prerequisites: "C" or better in Spanish III  
Credit: 1.0



Spanish IV is designed as a continuation of Spanish III and is recommended for students who seek advanced proficiency in listening, reading, writing, and speaking Spanish, in accordance with the State and National Standards. Students continue their study of advanced Spanish grammar and communication skills. Emphasis is on acquiring a larger Spanish vocabulary and mastery of grammar so the students can become fluent in speaking. Students read a variety of selected materials, are exposed to significant Spanish authors/literary movements, make oral presentations, and write controlled compositions. Culture is emphasized through the study of authentic materials including readings, film, music, and other media. Classes are conducted in Spanish the majority of the time. Students are expected to complete weekly readings, research and other independent work outside of class. Students are also exposed to the six AP thematic units and will complete related activities formatted in accordance with the AP Spanish Language and Culture Examination.

**FIRST  
CLASS**

**EAST TROY CODE**  
Respect – Responsibility – Integrity

# East Troy High School

## **1<sup>ST</sup> CLASS *PRIDE***

- **Respect**
- **Responsibility**
- **Integrity**

**WE** treat each other with dignity and respect.

**WE** know our audience when communicating and always use appropriate language.

**WE** keep our school neat and clean.

**WE** solve problems creatively by stopping, thinking and discussing our actions.

**WE** work to be our personal best because....

***WE ARE***  
**1<sup>st</sup> CLASS!**