EAST TROY

COMMUNITY SCHOOL DISTRICT

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

HIGH SCHOOL PLANNING GUIDE 2023-2024

www.easttroy.k12.wi.us

Revised 12/13/2022

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EAST TROY COMMUNITY SCHOOL DISTRICT
Committed to the Growth & Success of Each Student, Each Year

EAST TROY HIGH SCHOOL
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Stacey Kuehn, Principal
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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, transcripted courses, and earning certifications and other accreditations through their coursework at ETHS!

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 Xello. As students develop their academic plan, in collaboration with parents and counselors, students will select courses to explore their career interests and develop post-secondary plans.

Courses are organized by department and career cluster. There are sixteen career clusters with coursework pathways associated with each cluster to guide course selections. To assist in career planning, information pertaining to courses and pathways can be found in this course guide. 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,

Stacey Kuehn
High School Principal

Contact Information

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GRADUATION REQUIREMENTS

East Troy High School offers a range of courses and learning opportunities to prepare students for a variety of post-secondary plans. The information in this guide is intended to assist learners in the academic and career planning process. It is recommended that you familiarize yourself with the requirements for graduation (board policy 345.7) as well as explore requirements for opportunities you are interested in pursuing beyond high school.

East Troy High School Course and Credit Requirements	
English: 4 credits	
English 9 or Accelerated English 9	1 credit
English 10 or Accelerated English 10	1 credit
English 11 or AP Language & Composition or AP Literature & Composition	1 credit
English Choice	1 credit
Math: 3 credits	
Algebra (or advanced math course)	1 credit
Geometry (or advanced math course)	1 credit
Math Choice	1 credit
Science: 3 credits	
Biology or Accelerated Biology	1 credit
Physical Science Choice	1 credit
Science Choice	1 credit
Social Studies: 3 credits	
Human Geography or AP Human Geography	1 credit
U.S. History or AP U.S. History	1 credit
Civics (formerly American Government)	0.5 credit
Economics	0.5 credit
*Passing grade on Civics Exam required	
Physical Education and Health: 2 credits	
Fit Freshmen	0.5 credit
Physical Education Choice	1 credit
Health	0.5 credit
Electives: 9.5 credits	
Elective Choice	9.5 credits
Total Credits	24.5 credits

GPA and TRANSCRIPT INFORMATION

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, and 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 East Troy High School webpage.

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.

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 and independent 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/VANGuard, Youth Apprenticeship, Work Experience, ACT Prep, or courses not taught on campus. Online coursework is approved curriculum by the School Board, therefore, is computed in the GPA.

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	
B+	87 - 89	3.00
B	83 - 86	
B-	80 - 82	
C+	77 - 79	2.00
C	73 - 76	
C-	70 - 72	
D+	67 - 69	1.00
D	63 - 66	
D-	60 - 62	
F	0 - 59	0.00

Sample Trimester 1 GPA Calculation:

COURSE	GR	VALUE		CREDIT		GR PTS
Freshman English	A	4.00	x	.50	=	2.00
Human Geography	B	3.00	x	.50	=	1.50
Algebra	A	4.00	x	.50	=	2.00
Biology	C	2.00	x	.50	=	1.00
Accounting	B	3.00	x	.50	=	1.50
TOTALS				**2.50**		**8.00**

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

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.

SUMMA CUM LAUDE:
Greater Than 36 Honors Points

MAGNA CUM LAUDE:
26 to 35.2 Honors Points

CUM LAUDE:
16-25.6 Honors Points

Number of Honors Credits	GPA 4	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2
14	56	54.6	53.2	51.8	50.4	49	47.6	46.2	44.8
13.5	54	52.65	51.3	49.95	48.6	47.25	45.9	44.55	43.2
13	52	50.7	49.4	48.1	46.8	45.5	44.2	42.9	41.6
12.5	50	48.75	47.5	46.25	45	43.75	42.5	41.25	40
12	48	46.8	45.6	44.4	43.2	42	40.8	39.6	38.4
11.5	46	44.85	43.7	42.55	41.4	40.25	39.1	37.95	36.8
11	44	42.9	41.8	40.7	39.6	38.5	37.4	36.3	35.2
10.5	42	40.95	39.9	38.85	37.8	36.75	35.7	34.65	33.6
10	40	39	38	37	36	35	34	33	32
9.5	38	37.05	36.1	35.15	34.2	33.25	32.3	31.35	30.4
9	36	35.1	34.2	33.3	32.4	31.5	30.6	29.7	28.8
8.5	34	33.15	32.3	31.45	30.6	29.75	28.9	28.05	27.2
8	32	31.2	30.4	29.6	28.8	28	27.2	26.4	25.6
7.5	30	29.25	28.5	27.75	27	26.25	25.5	24.75	24
7	28	27.3	26.6	25.9	25.2	24.5	23.8	23.1	22.4
6.5	26	25.35	24.7	24.05	23.4	22.75	22.1	21.45	20.8
6	24	23.4	22.8	22.2	21.6	21	20.4	19.8	19.2
5.5	22	21.45	20.9	20.35	19.8	19.25	18.7	18.15	17.6
5	20	19.5	19	18.5	18	17.5	17	16.5	16
4.5	18	17.55	17.1	16.65	16.2				
4	16								

LAUDE HONOR COURSES

Laude Honor Courses (beginning 2022-2023) are noted with a "Laude Honor Course" symbol ( ) throughout this guide.

Agriculture
Agriculture Advanced Studies
Horticulture: Greenhouse Crops
Horticulture: Healthy Soils

Art
Advanced Art
Illustration Media Concepts
Introduction to Digital Photography

Business
Accounting Principles
Advanced Accounting
Advanced Microsoft Office

Computer Science
AP Computer Science A
AP Computer Science Principles
Cybersecurity
Game Development
Networking Concepts

English
AP Language and Composition
AP Literature and Composition
Formal Composition
Novel

Family and Consumer Science
Foundations of Early Childhood Education
Health, Safety and Nutrition
Intro to Managing Service in the Hospitality Industry

Math
AP Calculus AB
AP Statistics
Pre-Calculus
Statistics
Trigonometry

Music
Camerata (Advanced Choir) *
Symphonic Band*

Other Electives
Advanced Yearbook*
Digital Electronics

Science
Accelerated Chemistry
AP Biology
AP Chemistry
AP Physics 1

Social Studies
AP Human Geography
AP Psychology
AP US History
Current Issues

Technology and Engineering
Drafting: CAD2 - 3D
Metals: Advanced
Woods: Furniture & Cabinet Construction

World Languages
Spanish III
Spanish IV
AP Spanish Language and Culture

*Junior/Senior year honors level with one year of previous coursework required

COURSE INFORMATION

Course Changes

Students may drop and add another course for one or more of the following reasons:

- Failure of a course
- Missing prerequisite
- Course is a postsecondary prerequisite
- Course needed for graduation
- Inappropriate course placement
- Course is full
- Clerical error
- Medical needs
- Computer error
- Administrative recommendations

Follow these steps to request a schedule change:

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

Adding Courses

Follow the procedures for course changes. The request must be received prior to the 5th 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. An online course may be added at any time, pending administrative approval. (Board Policy 345.1)

Dropping Courses

Follow the procedures for course changes. Students may drop a course without denotation on their transcript prior to the 11th day of the trimester. Beginning on the 11th day of the trimester and prior to the 6 week grade check, a course may be removed and a "W" for withdrawal will be denoted on the transcript. Students dropping a course after the 6 week grade check will receive a final grade of F for the class. This failing grade will become part of the student's permanent record. (Board Policy 345.1)

Course Overviews (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. They also provide parents/guardians a consistent, clear understanding to support their child's learning at home.

Where can I find the course overviews?
Course overviews for elementary, middle, and high school are available on the district website under "Teaching, Learning & Assessments".

EXTENDED LEARNING OPPORTUNITIES

Dual Credit Opportunities

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 (high school credit and college credit) through Transcripted Credit courses or Advanced Standing courses. The Gateway symbol ( ) throughout this guide identifies courses anticipated to be offered for college credit through Gateway Technical College. Identified courses are based on previous offerings and are subject to change year to year and throughout the year. Be sure to check with your counselor for an updated list of transcripted courses.

Transcripted Courses*

***Previously offered transcripted courses. Check with your counselor for a current list of transcripted courses, as offerings change throughout the year. Visit GTC's website to view our articulation agreements with Gateway Technical College.**

Agriculture
Horticulture: Greenhouse Crops
Horticulture: Healthy Soils
Landscaping Design, Installation & Maintenance

Art
Illustration Media Concepts
Introduction to Digital Photography

Business
Accounting Principles
Advanced Accounting
Advanced Microsoft Office
Business Law
Introduction to Business
Marketing Principles
Microsoft Office Applications
Personal Finance

Computer Science
Cybersecurity
IT Essentials
Networking Concepts
Web Programming

English
Mass Communications
Technical and Career Writing

Family and Consumer Science
Foundations of Early Childhood Education
Health, Safety and Nutrition
Housing, Interiors and Furnishings
Intro to Managing Service in the Hospitality Industry
Introduction to Service in the Hospitality Industry
Principles of Hospitality

Math
Applied Math I
Applied Math II

PLTW
Digital Electronics
Introduction to Engineering Design
Principles of Engineering

Technology and Engineering
Construction Production
Industrial Robotics & Programming
Metals: Advanced
Small Power Equipment

Transcripted courses are 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 the 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.

For more information about Gateway Technical College go to http://www.gtc.edu.

Early College Credit Program, Start College Now, and VANGuard

The Early College Credit Program allows students in grades 9-12 to apply and enroll in 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 about the campus they are considering.

The Start College Now program is for students in grades 11-12 interested in attending a Wisconsin technical college. Students must complete 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.

Additional virtual college course offerings may be available via VANGuard. Check with your counselor for current offerings.

Note: Early College Credit Program, Start College Now, and VANGuard course grades are not included in the GPA. Students earn 1.0 college credit per 0.25 high school credit.

Advanced Placement

Advanced Placement (AP) courses are college-level courses that can be taken in high school that follow a College Board approved curriculum. Students have the option to take the AP exams in the spring and potentially earn college credit and/or advanced placement in post-secondary courses.

AP Courses Offered		
Computer Science	**Math**	**Social Studies**
AP Computer Science A	AP Calculus (AB)	AP Human Geography
AP Computer Science Principles	AP Statistics	AP Psychology
English	**Science**	AP U.S. History
AP Language and Composition	AP Biology	**World Languages**
AP Literature and Composition	AP Chemistry	AP Spanish Language and Culture
	AP Physics 1	

To learn more about AP courses, AP exams, and how taking AP courses can give you an advantage in college, visit the AP College Board website.

Project Lead The Way

Project Lead The Way (PLTW) provides transformative learning experiences for students by engaging them in hands-on activities, projects, and problems; empowering them to solve real-world challenges; and inspiring them to reimagine how they see themselves. Students in the PLTW program develop, transportable skills – such as problem solving, critical and creative thinking, collaboration, and communication – that they will use both in school and for the rest of their lives, on any career path they take.

PROJECT LEAD THE WAY PLTW
Preparing students for the global economy

Students participating in PLTW courses may have opportunities to earn scholarships, college credit, and preferred admission to colleges and universities. In addition, students have opportunities to seek apprenticeships and make industry connections. Check out PLTW's website for the most up-to-date opportunities.

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

Research demonstrates that PLTW students outperform their peers in school, are better prepared for post-secondary studies, and are more likely to consider careers as scientists, technology experts, engineers, mathematicians, healthcare providers, and researchers compared to their non-PLTW peers. Students find PLTW programs relevant, inspiring, engaging, and foundational to their future success.

Learn more by visiting PLTW.org.

Online Learning Opportunities

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 and Edgenuity 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.

WISCONSIN VIRTUAL ACADEMY℠
POWERED BY K12

*Check out Wisconsin Virtual Academy's website for current courses offered

SECONDARY LEARNING PATHWAYS

The following programs are alternate education options for students that meet established criteria. 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.

East Troy Alternative Learning (ETAL)

ETAL provides an alternate curriculum for students leading to a high school diploma. The program is based on high quality instructional practices aligned with state standards ensuring college and career readiness for all students. Students enrolled in this program follow a modified schedule, complete coursework in a smaller setting, and enhance their employability skills through collaborative relationships with community businesses and employers through volunteering opportunities, job shadows, and on-site visits. Parents and staff can refer a student to be considered for the program.

East Troy Career Institute (ETCI)

This program allows students to earn their high school diploma through a varied educational pathway. Students enrolled in ETCI attend school from 8-10 am daily in a personalized and small environment focused on building strong academic skills through in-person instruction and online resources with support. Students focus on core academic areas (English, Math, Science, and Social Studies) while also earning elective credit through either work experience placements or by taking elective courses at East Troy High School.

East Troy High School 9/10 Skills Academy

ETHS Skills Academy is a school within a school program that supports 9th and 10th grade students in core courses through a small group/cohort model that integrates academic skill building, college and career planning, and career exposure. Students in this program meet daily the entire school year from periods 1-3 earning alternative credit and access high school courses for elective credit the remainder of the day. Enrollment in this program is criteria-based and qualifying students receive an invitation to enroll. However, if space is available, parents may request consideration for this program.

GPS

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.

SPECIAL EDUCATION

General Information

- Special education needs are met by the East Troy Community School District according to the procedures established through Chapter 115 of the State Statutes and the Individuals with Disabilities Education Act (IDEA) of the Federal Statutes.
- If a student is determined to be a child with a disability and needs specialized instruction, an Individualized Education Program (IEP) is developed to identify the goals, objectives, and related services the learner requires to be able to access a Free Appropriate Public Education (FAPE) in the Least Restrictive Environment (LRE).

Services and Supports

A wide range of services and supports are provided to learners who have been identified with special education disabilities to meet their unique needs and ensure that each child is College and Career Ready when they graduate from High School. To meet learner needs within the least restrictive environment and ensure that all learners receive the most appropriate education possible, all learners with identified disabilities will be instructed in regular education classes. Exceptions to this may be made when individual needs require special education course development. In those situations, the learner's IEP team will outline the need for specially designed instruction which is aligned with common core standards and the school curriculum. Each learner's IEP team makes placement decisions in courses and instruction based on factors such as subject matter and disability related needs.

In addition to special education courses, some learners may receive intervention courses which provide reading, writing and mathematics skill development. Learners are placed in these courses based on academic performance levels.

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 Amanda Jones, Director of Special Education & Pupil Services.

WORK-RELATED PROGRAMS

Youth Apprenticeship & Work Experience

East Troy High School students have many opportunities to participate in work experience programs and earn high school credit. 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, please talk to your school counselor.

*For more information on the Youth Apprenticeship program, check out the ETHS CTE website.

NOTE: Youth Apprenticeship and Work Experience are not included in calculating GPA.

CHARACTERISTICS	YOUTH APPRENTICESHIP	WORK EXPERIENCE
Paid/Unpaid	Paid Work Experience	Paid/Unpaid Work
Related Classroom Instruction	State Required Competencies	Local Competencies
Supervision	Youth Apprenticeship Coordinator	Vocationally Certified
State Certificate	Yes	No
High School Credit	Yes	Yes
Required Work Hours	450/900	Individualized
Administered By	Governor's Work-Based Learning Board	Local School District
Typical Time to Complete	1 or 2 years (junior and/or senior year)	Trimester or year long
Content Areas	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

Global Scholars Program

Wisconsin's Global Scholars Program is designed to improve global learning across the curriculum to prepare students to be workforce-, world-, and life-ready with global competence. Students successfully completing the program receive a DPI issued certificate of global competence that recognizes students' language, intercultural, and global competence and serves as a college, career, and community readiness talent marker.

Global Scholars Program Requirements:

- 4 credits of sustained learning in a world language or evidence of language proficiency
- 4 credits of coursework designed to facilitate global learning
- 8 reflections on global learning and cultural literacy development through reading 4 or more books, and including up to 4 learning experiences through art, music, films, podcasts, and community-based cultural events
- 4 or more occurrences of active participation/leadership in school and community-based extracurricular and special events with a global focus
- 20 or more hours of service-learning projects related to a global issue

For more information or to participate in this program, contact the GEAC Coordinator.

ACADEMIC AND CAREER PATHWAYS

As part of Academic and Career Planning (ACP) process, students use Xello to create a post-secondary plan. Through the Xello program, students can explore careers in the various career clusters and colleges that support the post-secondary plans they develop over the years at East Troy High School. Academic and career pathways are a planning tool to guide students in exploring coursework and experiences relevant to college and career goals. Utilize the pathways in the following pages to assist in exploring career options and recommended relevant coursework offered here at East Troy.

These pathways are further enhanced through our collaboration in the Wisconsin Regional Career Pathway approach, a statewide approach to delivering high-quality career pathways in high schools that reflect the needs and vision of the community. For more information on Regional Career Pathways and offerings at East Troy check out the Wisconsin DPI's website and/or talk with your counselor.

Agriculture, Food, and Natural Resources

What is the Agriculture, Food, and Natural Resources Pathway?

The Agriculture, Food, and Natural resources pathway refers to career fields related to natural resources and the environment. This includes programs of study on subjects such as:

- Agriculture (production, processing, marketing, distribution, financing)
- Earth Science and Environmental Science
- Forestry, Horticulture and Wildlife Management

Is this Pathway for me?

People who enjoy the Agriculture, Food, and Natural resource pathway also tend to enjoy the following activities:

- Working with plants and animals
- Identifying and preserving wildlife and natural resources
- Enjoy math, science, and agriculture classes
- Creating products from natural resources
- Caring for plants in the home or yard
- Working outdoors and with nature

What careers are in the Agriculture, Food, and Natural Resources Pathway?

Sample careers in the Agriculture, Food, and Natural Resources pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Bee Keeper	Animal Control Officer	Agricultural Banker
Collectors	Animal Nutritionist	Agricultural Commodities Broker
Crop Sprayer	Arborist	Agricultural Economist
Farm Equipment Mechanic	Crop or Animal Farmer	Agricultural Educator
Farm Worker	Environmental Technician	Ag Sales & Communications
Fisherman	Farrier	Biochemist
Horse Stable Worker	Fish & Game Officer	Botanist
Landscape Laborer	Genetic Technologist	Entomologist
Logger	Greenhouse Manager	Forester
Nursery Worker	Golf Course Manager	Game Warden
Pet Groomer	Horticulturist	Geneticist
Pet Shop Worker	Landscape Designer	Landscape Architect
Refuse and Recyclable Material	Quality Food Control	Marine Biologist
Vet Hospital Worker	Taxidermist	Plant Pathologist
	Turf Manager	Soil Geologist
	Veterinary Technician	Toxicologist
	Waste Water Technician	USDA Inspector
		Veterinarian
		Wildlife Biologist

Agriculture, Food, and Natural Resources

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Exploring Agriculture
Pets and Production Animals

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Conservation and Forestry
Horticulture Greenhouse Crops
Horticulture: Healthy Soils
Wildlife Management

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Landscape Design
Agriculture Leadership
Agriculture Advanced Studies
Microsoft Office
Current Issues
AP Human Geography
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Agriculture Advanced Studies
Personal Finance
Technical and Career Writing
Botany
Ecology
Animal Science
Youth Apprenticeship
Start College Now/Early College Credit

Architecture and Construction

What is the Architecture and Construction Pathway?

The Architecture and Construction pathway refers to career fields related to infrastructure and building design. This includes programs of study on subjects such as:

- Designing new buildings and spaces
- Restoring old buildings and developing new ways to use existing buildings or structures
- Alteration, repair, restoration, maintenance, extension, demolition or dismasting of buildings or structures

Is this Pathway for me?

People who enjoy the Architecture and Construction pathway also tend to enjoy the following activities:

- Reading and following blueprints and/or instructions
- Visiting and learning about beautiful, historical, or interesting buildings
- Solving technical problems
- Enjoy math, science, and technical education classes
- Visualizing possibilities and finished products
- Working with their hands

What careers are in the Architecture and Construction Pathway?

Sample careers in the Architecture and Construction pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Brick Layer	Architectural Drafter	Architect
Construction Laborer	Cabinet/Kitchen Designer	Building Contractor
Drywall Installer	Carpenter	C.A.D. Designer
Fence Builder	Cement Mason	Civil Engineer
Grading & Leveling Machine	Electrical Engineering	Cost Estimator
Groundskeeper & Gardener	Electrician	Electrical Engineer
Highway Maintenance	Glazier	Grounds Supervisor
Operating Engineer	HVAC Technician	Interior Design
Painter	Pipefitter	Landscape Architect
Roofer	Plaster	Surveyor
Tile Setter	Plumber	
	Steamfitter	
	Lineworker	

Architecture and Construction

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Possible Electives
Construction: Materials and Processes
How to Make Almost Anything in the Fab Lab
PLTW: Intro to Engineering Design
Art Foundations

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Possible Electives
Construction Production A/B
Design Thinking in the Fab Lab
Drafting CAD1- 2D
PLTW: Principles of Engineering
Metals: Materials & Processes
Industrial Robotics & Programming

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Possible Electives
Advanced Metals
Applied Engineering in the Fab Lab
Drafting CAD2- 3D
Pre-Calculus/AP Calculus
Trigonometry
Housing, Interiors & Furnishings
PLTW: Digital Electronics
Woods: Furniture & Cabinet Construction
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Possible Electives
Youth Apprenticeship
Start College Now/Early College Credit
Electronics
Technical & Career Writing
Personal Finance

Arts, A/V Technology and Communications

What is the Arts, A/V Technology and Communications Pathway?

The Arts, A/V Technology and Communications pathway refers to career fields related to creative exploration. This includes programs of study on subjects such as:

- Visual and performing arts and design
- Journalism
- Entertainment services

Is this Pathway for me?

People who enjoy the Arts, A/V Technology and Communications pathway also tend to enjoy the following activities:

- Entertaining and performing in front of others
- Using their imagination to create works of art
- Enjoy music, art, English and computer science classes
- Communicating, and talking with others
- Working with technology
- Reading and Writing

What careers are in the Arts, A/V Technology and Communications Pathway?

Sample careers in the Arts, A/V Technology and Communications pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Floral Designer	Actor/Actress	Advertising Layout Design
Grips	Advertising Photographer	Artist
Lithographic Photographer	Animator	Art Teacher
Photographer	Art Supply Retailer	Art Therapist
Picture Framer	Broadcast Technician	Cinematographer
Printing Press Operator	Choreographer	Director
Proofreader	Illustrator	Editor
Sign Designer	Personal Stylist	Fashion Designer
Telecommunications Line Installer	Photographer	Game Designer
Television Camera Operator	Printing Press Operator	Fine Artist – Painter, Jewelry, Sculptor
	Sound Engineering Technician	Journalist
	Tattoo Artist	Package Designer
	Video Game Designer	Producer
	Website Designer	Reporter
		Special Effects Designer

Arts, A/V Technology and Communications

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Art Foundations
Introduction to Computer Science
Yearbook
Microsoft Office
How to Make Anything in the Fab Lab
Concert Choir
Concert Band

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Fine Art Survey
Craft Survey
Web Programming
Yearbook
Intro to Business
Intro to Digital Photography
Illustration Media Concepts
Camerata (Adv Choir)
Symphonic Band

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
3-D Animation
Ceramics
Graphic Design
Painting
Sculpture
Advanced Art
Advanced Yearbook
Game Development
Housing, Interiors & Furnishings
Marketing
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Advanced Art
Advanced Yearbook
AP Computer Science Principles
Personal Finance
Mass Communications
Electronics
Creative Writing
Youth Apprenticeship
Start College Now/Early College Credit

Business Management and Administration

What is the Business Management and Administration Pathway?

The Business Management and Administration pathway refers to career fields related to business growth and management. This includes programs of study on subjects such as:

- Planning, organizing, directing and evaluating business functions to efficient and Productive business operations

Is this Pathway for me?

People who enjoy the Business Management and Administration pathway also tend to enjoy the following activities:

- Solving problems and making decisions
- Working with technology
- Enjoy math, English, business and computer science courses
- Organizing and planning
- Creating reports, graphs, and presentations
- Being a leader and working with others

What careers are in the Business Management and Administration Pathway?

Sample careers in the Business Management and Administration pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Bookkeeping Clerk	Administrative Assistant	Accountant CPA
Customer Service Representative	Business Administrator	Account Executive
Entrepreneur	Business Manager	Advertising Manager
Human Resource Clerk	Computer Operator	Arbitrator
Office Clerk	Food Service Manager	Business and Industry Manager
Payroll Clerk	Office Coordinator/Manager	Client Services Manager
Receptionist	Operations Coordinator	Director of Operations
Teller	Personal Banker	Educational Administrators
	Sales Associate/Manager	Financial Analyst
	Tax Preparer	Health Care Administrator
	Healthcare Billing & Coding	Human Resource Manager
	Medical Administrative Assistant	International Business Management Consultant
		Small Business Manager
		Controller
		Training and Development Specialist

Business Management and Administration

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Introduction to Business
Microsoft Office Applications
Introduction to Computer Science
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Advanced Office
Marketing Principles
Web Programming
Business Law
Principles of Hospitality
Intro to Health Careers
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Accounting Principles
Marketing Principles
IT Essentials
Intro to Service in Hospitality Industry
Statistics/AP Statistics
Pre Calculus/AP Calculus
ACT Prep
Spanish III/IV

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Advanced Accounting
Personal Finance
Cybersecurity
Networking Concepts
Intro to Managing Service in Hospitality
Spanish IV/AP
Start College Now/ Early College Credit

Education and Training

What is the Education and Training Pathway?

The Education and Training pathway refers to career fields related to teaching and promoting new skills and materials. This includes programs of study on subjects such as:

- Planning, managing and providing education and training services and related learning support services

Is this Pathway for me?

People who enjoy the Education and Training pathway also tend to enjoy the following activities:

- Helping people overcome their challenges
- Teaching skills to others
- Enjoy math, English, science and family and consumer science courses
- Working with many different personalities
- Handling several responsibilities at once

What careers are in the Education and Training Pathway?

Sample careers in the Education and Training pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Aerobics Instructor	Lead Child Care Teacher	Librarian
Child Care Assistant	Library Technician	Music Education
Dance Teacher	Preschool Teacher	Music Therapist
Library Assistant	Sign Language Interpreter	Professor
Self-Enrichment Teacher	Teacher Assistant	School Counselor
Coach		Teacher (Elementary-High School)
Nanny		Speech/Language Pathologist
		Athletic Trainer
		Historian
		Principal
		Psychologist
		Psychiatrist
		Social Worker

Education and Training

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credits)

Suggested Electives
Family, Foods & Society
Microsoft Office
Concert Choir
Concert Band
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Foundations of Early Childhood Education
Principles of Hospitality
Camerata (Adv Choir)
Symphonic Band
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
AP Psychology
Health, Safety & Nutrition
Intro to Service in Hospitality
Peer Tutor
Sociology
Current Issues
AP Human Geography
Spanish III/IV
ACT Prep

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Intro to Managing Service in Hospitality
Spanish IV/AP
Peer Tutor
Start College Now/Early College Credit

Finance

What is the Finance Pathway?

The Finance pathway refers to career fields related to money management. This includes programs of study on subjects such as:

- Banking and accounting related services
- Financial and investment planning
- Insurance services

Is this Pathway for me?

People who enjoy the Finance pathway also tend to enjoy the following activities:

- Working with numbers
- Identifying and following changing to the stock market
- Enjoy math and business courses
- Helping people manage their money and resources
- Enjoy working in a fast-paced environment

What careers are in the Finance Pathway?

Sample careers in the Finance pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Bank Teller	Insurance Appraiser	Accountant
Bill and Account Collector	Claims Adjuster, Examiner, & Investigator	Actuary
Brokerage Clerk	Insurance Sales Agent	Auditor
Credit Authorizers/Checkers Clerk	Tax Preparer	Budget Analyst
Insurance Claims/Policy Processing		Credit Analyst
Loan Interviewer/Clerk		Financial Counselor
		Financial Analyst
		Insurance Underwriter
		Investment Banking
		Risk Management Specialist
		Security Trader
		Financial Planner
		Portfolio Manager
		Quantitative Analyst
		Loan Officer
		Branch Manager

Finance

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Introduction to Business
Microsoft Office Applications

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Advanced Office
Business Law
Introduction to Computer Science

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Marketing Principles
Accounting Principles
IT Essentials
Pre-Calculus/AP Calculus
Statistics/AP Statistics
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Advanced Accounting
Personal Finance
Cybersecurity
Networking Concepts
Youth Apprenticeship
Start College Now/Early College Credit

Government and Public Administration

What is the Government and Public Administration Pathway?

The Government and Public Administration pathway refers to career fields related to government, politics, and local, state and federal regulation. This includes programs of study on subjects such as:

- Executing governmental functions to include governance, national security, foreign service, revenue and taxation, regulation and planning, and management and administration at the local, State and federal levels

Is this Pathway for me?

People who enjoy the Government and Public Administration pathway also tend to enjoy the following activities:

- Negotiating, defending and debating ideas and topics
- Traveling to new places
- Enjoy government, history, English, math and World Language classes
- Analyzing information and interpreting it to others
- Being active in politics and following news sources
- Working with details and solving complex problems

What careers are in the Government and Public Administration Pathway?

Sample careers in the Government and Public Administration pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Driver's License Examiner	Association Executive	City Manager
Infantry Forces	Building Inspector	Infantry Officer
License Clerk	City Planning Aid	Lawyer
Mail Carrier	Postmaster	Legislator
Mail Handling Machine Operator	Special Forces	Lobbyist
Postal Clerk	Title Examiner	Occupational Health & Safety Politician
Municipal Clerk	Transportation Inspector	Political Scientist
	Sign Language Interpreter	Social Services Administrator Specialist
	Translator	Urban Planner
		Foreign Service Officer
		Statistician
		Food Inspector

Government and Public Administration

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Intro to Business
Microsoft Office
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Adv Microsoft
Business Law
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Personal Finance
Accounting
Current Issues
AP Psychology
AP Human Geography
Statistics/AP Statistics
Spanish III/IV
Sociology
ACT Prep

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
AP US History
Spanish IV/AP
Mass Communications
Start College Now/Early College Credit

Health Science

What is the Health Science Pathway?

The Health Science pathway refers to career fields related to the promotion of health and the treatment of injuries, conditions and disease. This includes programs of study on subjects such as:

- Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Is this Pathway for me?

People who enjoy the Health Science pathway also tend to enjoy the following activities:

- Working with and helping people
- Learning about how the human body works
- Enjoy math, science, and health classes
- Can work reasonably well under stress or crisis
- Working with, and researching new technology
- Like to stay organized and keep accurate records

What careers are in the Health Science Pathway?

Sample careers in the Health Science pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Clerk	Certified Nursing Assistant	Anesthesiologist
Dietary Aide	Dental Assistant	Athletic Trainer
Home Health Aide	Dental Hygienist	Chiropractor
Hospital Admitting	Dialysis Technician	Dentist
Medical Office Assistant	Emergency Medical Technician	Dietician
Orderly	Home Health Aide	Health Educator
Toxicologist	Massage Therapist	Nurse Practitioner
	Medical Assistant	Occupational Therapist
	Occupational Therapy Assistant	Oral Surgeon
	Pharmacy Technician Surgical Physical Therapy Aide	Pharmacist
	Radiology Technologist	Podiatrist
	Registered Nurse	Primary Care Physician
	Technician	Psychiatrist
	Ultrasound Technician	Registered Nurse
	Medical Billing & Coding Specialist	Surgeon
		Healthcare Administrator

Health Science

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Health Careers
Family, Foods & Society
Microsoft Office
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Principles of Hospitality
Foundations of Early Childhood Education
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
AP Psychology
Health, Safety & Nutrition
Intro to Service in the Hospitality Industry
Anatomy & Physiology
Physics
Spanish III/IV
Sociology
Current Issues
AP Human Geography
ACT Prep
Certified Nursing Assistant (Gateway)
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Anatomy & Physiology
Forensic Science
Spanish IV/AP
Intro to Managing Service in Hospitality
AP Biology
AP Chemistry
Youth Apprenticeship
Start College Now/Early College Credit

Hospitality and Tourism

What is the Hospitality and Tourism Pathway?

The Hospitality and Tourism pathway refers to career fields related to the culinary, travel, lodging, amusement and attractions industry. This includes programs of study on subjects such as:

- Managing and marketing the operations of restaurants and other food related services, Lodging, attractions, recreational events and travel related services

Is this Pathway for me?

People who enjoy the Hospitality and Tourism pathway also tend to enjoy the following activities:

- Working with people on choices for food, leisure time and travel
- Working together in a team
- Enjoy family and consumer education, business and social studies classes
- Handling several responsibilities at once
- Working in customer services
- Planning and organizing

What careers are in the Hospitality and Tourism Pathway?

Sample careers in the Hospitality and Tourism pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Cake Decorator	Casino Supervisor	Business Owner
Casino Dealer	Event Planner	Private Household Chef
Caterer	Executive Chef	Recreation Director
Concierge	Hotel/Motel Manager	Conservator
Flight Attendant	Pastry Chef	Curator
Food Preparation	Restaurant Manager	
Hotel Clerk	Spa & Wellness Manager	
House Keeping	Wedding Planner	
Sales/Front Desk	Butcher	
Tour Guide		
Travel Agent		
Waiter/Waitress		

Hospitality and Tourism

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Intro to Business
Microsoft Office
Family, Foods, & Society
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Principles of Hospitality
Adv Microsoft Office
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Intro to Service in Hospitality
Marketing Principles
Sociology
Spanish III/IV
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Accounting Principles
Personal Finance
Spanish IV/AP
Intro to Managing Service in Hospitality
Youth Apprenticeship
Start College Now/Early College Credit

Human Services

What is the Human Services Pathway?

The Human Services pathway refers to career fields related to helping individuals and families meet their personal needs. This includes programs of study on subjects such as:

- Counseling and mental health services
- Child/Family services
- Cosmetics, spa, and fitness services
- Funeral services

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Is this Pathway for me?

People who enjoy the Human Services pathway also tend to enjoy the following activities:

- Working with and helping people
- Learning about how the human body works
- Enjoy math, science, and health classes
- Can work reasonably well under stress or crisis
- Working with, and researching new technology
- Like to stay organized and keep accurate records

What careers are in the Human Services Pathway?

Sample careers in the Human Services pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Fitness Instructor	Community Organization Worker	Aesthetician – Medical Esthetician
Funeral Attendant	Cosmetologist	Alcohol and Drug Abuse Counselor
Mental Health Aide	Embalmer	Anthropologist
Nanny	Funeral Services Director	Career Counselor
Personal Care Aide	Massage Therapist	Clergy
Sales Associate	Mortician/Undertaker	Manager
Social and Human Services Assistant	Nail Technician	Marriage and Family Therapist
	Skin Care Specialist - Esthetician	Psychiatrist
		Psychologist
		School Counselor
		Social Worker

Human Services

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Family, Foods & Society
Health Careers
Microsoft Office
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Foundations of Early Childhood Education
Intro to Business
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
AP Psychology
Sociology
Current Issues
Spanish III/IV
AP Human Geography
Principles of Hospitality
Health, Safety & Nutrition
ACT Prep

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Intro to Service in Hospitality
Intro to Managing Service in Hospitality
Spanish IV/AP
Personal Finance
Start College Now/Early College Credit

Information Technology

What is the Information Technology Pathway?

The Information Technology pathway refers to career fields related to computer hardware, software, multimedia, or network systems. This includes programs of study on subjects such as:

- Supporting and managing computer hardware or software
- Designing new computer equipment
- Creating or helping to build video games

Is this Pathway for me?

People who enjoy the Information Technology pathway also tend to enjoy the following activities:

- Evaluating data
- Exploring and installing computer software
- Enjoy computer science & digital media, math, science and business classes
- Playing video games
- Using machines and technology
- Thinking logically and analytically

What careers are in the Information Technology Pathway?

Sample careers in the Information Technology pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Computer User Support	Animator	Application Software Developer
Electronics Repairer	Computer Service Technician	Computer Network Architect
Office Machine Repairer	Computer Network Support Specialist	Computer Programmer
	IT Help Desk	Computer System Analyst
	IT Network Specialist	Computer System Engineer
	Java Programmer	Database Administrator
	Mobile Programmer	Information Security Analyst
		Video Game Designer
		Web Administrator
		Web Developer

Information Technology

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Introduction to Computer Science
Web Programming
Microsoft Office
Art Foundations

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Developing Desktop Applications
Game Development
Adv Microsoft Office
PLTW: Principles of Engineering
Intro to Digital Photography

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
AP Computer Science Principles
IT Essentials
PLTW: Digital Electronics
Drafting CAD 1-2D
Graphic Design
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
AP Computer Science A
Cybersecurity
Networking Concepts
Electronics
Drafting CAD 2-3D
Illustration Media Concepts
Accounting Principles
Personal Finance
Youth Apprenticeship
Start College Now/Early College Credit
Statistics
AP Statistics
Pre-Calculus
AP Calculus

Law, Public Safety, Corrections, and Security

What is the Law, Public Safety, Corrections, and Security Pathway?

The Law, Public Safety, Corrections, and Security pathway refers to career fields related to planning, managing, and providing legal, public safety, protective services, and homeland security including professional and technical support services. This includes programs of study on subjects such as:

- Emergency and fire management, law enforcement, legal services, correction services, security and protective services

Is this Pathway for me?

People who enjoy the Law, Public Safety, Corrections, and Security pathway also tend to enjoy the following activities:

- Working with and helping people
- Observing people's behavior
- Enjoy government, social studies and English classes
- Learning about laws and regulations
- Negotiating, defending and debating ideas and topics

What careers are in the Law, Public Safety, Corrections, and Security Pathway?

Sample careers in the Law, Public Safety, Corrections, and Security pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Animal Control Worker	Bailiff	Adjudicator
Correctional Officer	Court Reporter	Administrative Law Judge
Crossing Guard	Emergency Medical Technician	Arbitrator
Dispatch	Firefighter	Conservation Warden
Lifeguard	Fire Inspector	FBI Agent
Parking Enforcement Officer	Legal Secretary	Forensic Science Technician
Security Guard	Paralegal Assistant	Judge
Ski Patrol	Parole Officer	Judicial Law Clerk
	Police Canine Trainer	Lawyer
	Police Officer	
	Private Detective	
	Probation Officer	

Law, Public Safety, Corrections, and Security

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Health Careers
Family, Foods & Society
Introduction to Computer Science
Microsoft Office
Spanish I

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Business Law
IT Essentials
Adv Microsoft
Spanish II

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
AP Psychology
Accounting Principles
Sociology
Current Issues
Forensic Science
Spanish III/IV
Cybersecurity
ACT Prep

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Advanced Accounting
Mass Communications
Personal Finance
Spanish IV/AP
Start College Now/Early College Credit

Manufacturing

What is the Manufacturing Pathway?

The Manufacturing pathway refers to career fields related to planning, managing and performing the processing of materials into intermediate or final products. This includes programs of study on subjects such as:

- Designing, installing, and repairing products such as cars, appliances, airplanes or electronic devices.

Is this Pathway for me?

People who enjoy the Manufacturing pathway also tend to enjoy the following activities:

- Working with their hands
- Operating equipment and machinery
- Enjoy math, science, and technology education classes
- Creating and repairing items and products
- Solving technical problems

What careers are in the Manufacturing Pathway?

Sample careers in the Manufacturing pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Engine and Machine Assembler	Aerospace Engineering Technician	Inspector
Home Appliance Repair	Electrician	Occupational Health and Safety
Installer	Industrial Engineering Technician	Production Supervisor
Locksmith	Mechanical Drafter	Electrical Engineer
Machine Operator	Nuclear Technician	Manufacturing Manager
Maintenance and Repair Worker	Robotics Technician	
Painter	Welder	
Recycling and Reclamation Worker	Pipefitter	
Team Assembler	Steamfitter	
	Plumber	
	HVAC Technician	
	Tool & Die Maker	

Manufacturing

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Possible Electives
Metals Materials and Processes
How to Make Almost Anything in the Fab Lab
Construction: Materials & Processes
Small Power Equipment

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Possible Electives
Introduction to Industrial Control Systems
Metals Materials and Processes
Drafting 1-2D
Intro to Business
Design Thinking in the Fab Lab
Construction Production A/B
Adv. Metals
PLTW: Intro to Engineering Design

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Possible Electives
Industrial Robotics and Programming
PLTW: Principles of Engineering
Drafting 2-3D
Housing, Interiors & Furnishings
Woods: Furniture and Cabinet Making
Applied Engineering in the Fab Lab
Current Issues
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Possible Electives
PLTW: Digital Electronics
Accounting Principles
Electronics
Personal Finance
Youth Apprenticeship
Start College Now/Early College Credit

Marketing

What is the Marketing Pathway?

The Marketing pathway refers to career fields related to the sale of business products and services. This includes programs of study on subjects such as:

- Advertising, public relations, sales and planning marketing activities to reach organizational objectives.

Is this Pathway for me?

People who enjoy the Marketing pathway also tend to enjoy the following activities:

- Selling products or services
- Identifying ways to improve businesses and organizations
- Enjoy math, English, business and computer science classes
- Working with and talking to people
- Organizing and training

What careers are in the Marketing Pathway?

Sample careers in the Marketing pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Cashier	Communications Specialist	Advertising and Promotions Manager
Merchandise Displayer	Marketing Analyst	Fundraising Manager
Product Promoter	Marketing Communication Associate	Market Research Analyst
Retail Clerk	Real Estate Agent	Public Relations Specialist
Retail Sales Supervisor	Sales Representative	Retail Manager
Telemarketer	Social Media Marketing Associate	Sales Managers
Automobile Salesperson	Advertising Copywriter	Sports Marketing Manager
Travel Agent	Appraiser	Supply Chain Analyst
	Insurance Agent	Logistics Specialist
		Media Buyer

Marketing

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Intro to Business
Microsoft Office
Art Foundations
Yearbook
Web Programming

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Adv. Microsoft Office
Business Law
Yearbook
Principles of Hospitality
Intro to Digital Photography

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Accounting Principles
Marketing Principles
Adv. Yearbook
ACT Prep
Graphics Design
Statistics/AP Statistics
Intro to Service in Hospitality
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
Advanced Accounting
Advanced Yearbook
How to Make Almost Anything in the Fab Lab
Intro to Managing Service in Hospitality
Personal Finance
Mass Communications
Youth Apprenticeship
Start College Now/Early College Credit

Science, Technology, Engineering, and Mathematics

What is the Science, Technology, Engineering, and Mathematics Pathway?

The Science, Technology, Engineering, and Mathematics pathway refers to career fields related to planning, managing, and providing scientific research and professional technical services. This includes programs of study on subjects such as:

- Biology, chemistry, geology, meteorology and any other natural, physical, or earth science
- The study of numbers and how they relate to each other
- The study of engineering fields such as aviation, environmental science, and robotics

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Is this Pathway for me?

People who enjoy the Science, Technology, Engineering, and Mathematics pathway also tend to enjoy the following activities:

- Analyzing problem situations
- Enjoy science, math, and technology education classes
- Exploring new technology
- Reading technical materials and diagrams
- Performing experiments to test scientific hypotheses
- Working with numbers

What careers are in the Science, Technology, Engineering, and Mathematics Pathway?

Sample careers in the Science, Technology, Engineering, and Mathematics pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Vending Machine Servicer	Biological Technician	Archaeologist
Office Machine Repairer	Chemical Technician	Astronomer
Appliance Repairer	Civil Engineering Technician	Biomedical Engineer
	Electronics Engineering Technician	Chemical Engineer
	Environmental Technician	Chemist
	Industrial Engineering Technician	Civil Engineer
	Mathematical Technician	Computer Engineer
	Mechanical Engineering Technician	Electrical Engineer
	Nuclear Technician	Geologist
	Remote Sensing Technician	Mathematician
		Nuclear Engineer
		Physicist
		Statistician

Science, Technology, Engineering, and Mathematics

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
How to Make Almost Anything in the Fab Lab
Small Power Equipment
Introduction to Computer Science
Web Programming
Art Foundations
PLTW: Intro Engineering Design

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Design Thinking in the Fab Lab
Drafting CAD 1-2D
Developing Desktop Applications
Game Development
Introduction to Industrial Control Systems
PLTW: Principles of Engineering
Metals Materials & Processes
Intro to Digital Photography

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Drafting CAD 2-3D
Astronomy
Applied Engineering in the Fab Lab
PLTW: Digital Electronics
AP Computer Science Principles
Adv. Metals
Graphic Design
Current Issues
Youth Apprenticeship
ACT Prep

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
AP Computer Science A
3-D Animation
Industrial Robotics & Programming
Electronics
Physics/AP Physics
Statistics/AP Statistics
Pre-Calculus/AP Calculus
AP Chemistry
Youth Apprenticeship
Start College Now/Early College Credit

Transportation, Distribution, and Logistics

What is the Transportation, Distribution, and Logistics Pathway?

The Transportation, Distribution, and Logistics pathway refers to career fields related to the movement of people and goods from one place to another. This includes programs of study on subjects such as:

- Air, rail, road and water travel
- Management of large storage centers
- Planning and revising schedules and plans related to transportation

Is this Pathway for me?

People who enjoy the Transportation, Distribution, and Logistics pathway also tend to enjoy the following activities:

- Working with a team
- Traveling to new places
- Enjoy technology education and business classes
- Solving technical problems
- Operating equipment and machinery

What careers are in the Transportation, Distribution, and Logistics Pathway?

Sample careers in the Transportation, Distribution, and Logistics pathway include:

High School Diploma	Tech College Certificate or Associate degree	Bachelor's degree and Above (4+ years of study)
Air Cargo Handling Supervisor	Aircraft Mechanic & Service Tech	Airline Pilot
Automotive Glass Installer	Air Traffic Controller	Astronaut
Bicycle Repairer	Automotive Technician	Commodities Manager
Bridge and Lock Tender	Avionics Technician	Inventory Analysts
Bus Driver	Commercial Pilot	Logistician
Delivery Driver	Purchasing and Inventory Clerk	Logistics Analysts
Dispatcher	Ship Engineer	Production Manager
Freight Agent	Truck Driver	Purchasing Manager
Taxi Driver		Quality Control Manager
		Supply Chain IT
		Supply Chain Manager
		Transportation Manager

Transportation, Distribution, and Logistics

Typical Four-Year Plan

Grade 9

Required General Education
English 9 or Accel Eng 9 (1.0 credit)
Algebra or Geometry (1.0 credit)
Biology or Accel Bio (1.0 credit)
Human Geo or AP Human Geo (1.0 credit)
Fit Freshmen and Health (1.0 credit)

Suggested Electives
Small Power Equipment
How to Make Anything in the Fab Lab
Introduction to Computer Science
Metals: Materials and Processes
Intro to Business

Grade 10

Required General Education
English 10 or Accel Eng 10 (1.0 credit)
Geometry or Algebra 2 (1.0 credit)
Physical Science Choice (1.0 credit)
U.S. History or AP U.S. History (1.0 credit)
Physical Education Choice (.5 credit)

Suggested Electives
Design Thinking in the Fab Lab
Microsoft Office
Adv. Metals

Grade 11

Required General Education
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit)
Math Choice (1.0 credit)
Science Choice (1.0 credit)
Civics (0.5 credit)
Economics (0.5 credit)
*Must pass Civics Exam to graduate
Physical Education Choice (.5 credit)

Suggested Electives
Applied Engineering in the Fab Lab
Metals Materials and Processes
Marketing Principles
Adv. Microsoft
Current Issues
ACT Prep
Youth Apprenticeship

Grade 12

Required General Education
English Choice (1.0 credit)

Suggested Electives
AP Computer Science Principles
Accounting Principles
Personal Finance
Youth Apprenticeship
Start College Now/Early College Credit

COURSE LISTING

The information in this guide, including the courses listed are intended as a resource to aid in high school and post-secondary planning. Many courses are offered based on student selections, making it important to explore and reflect on options. Counselors are available to assist in the course planning process.

=Laude Honors Course
=Dual Credit/Gateway Credit
=Certification Opportunity

**Credit options and opportunities are subject to change throughout the year.*

Course Name	# of Trimesters	Credit
Agriculture		
Agriculture Advanced Studies	1	0.5
Agriculture Leadership	1	0.5
Conservation & Forestry	1	0.5
Exploring Agriculture	1	0.5
Horticulture: Greenhouse Crops	1	0.5
Horticulture: Healthy Soils	1	0.5
Landscape Design, Install & Maintenance	1	0.5
Pets and Production Animals	1	0.5
Wildlife Management	1	0.5
Art		
3-D Animation	1	0.5
Advanced Art	1	0.5
Art Foundations	1	0.5
Ceramics	1	0.5
Craft Survey	1	0.5
Fine Art Survey	1	0.5
Graphic Design	1	0.5
Illustration Media Concepts	1	0.5
Introduction to Digital Photography	1	0.5
Painting	1	0.5
Sculpture	1	0.5
AVID		
AVID 9	3	1.5
AVID 10	2	1.0
AVID 11	2	1.0
AVID 12	2	1.0
Business		
Accounting Principles	2	1.0
Advanced Accounting	2	1.0
Advanced Microsoft Office	1	0.5
Business Law	1	0.5
Introduction to Business	1	0.5
Marketing Principles	1	0.5
Microsoft Office Applications	1	0.5
Personal Finance	1	0.5
Computer Science		
AP Computer Science A	2	1.0
AP Computer Science Principles	2	1.0
Cybersecurity	1	0.5
Developing Desktop Applications	1	0.5

Game Development	1	0.5
Introduction to Computer Science	1	0.5
IT Essentials	2	1.0
Networking Concepts	1	0.5
Technical Assistant	1	0.5
Web Programming	1	0.5
English		
Accelerated English 9	2	1.0
Accelerated English 10	2	1.0
AP Language and Composition	2	1.0
AP Literature and Composition	2	1.0
Contemporary Literature	1	0.5
Creative Writing	1	0.5
English 9	2	1.0
English 10	2	1.0
English 11	2	1.0
Formal Composition	1	0.5
Mass Communication	1	0.5
Novel	1	0.5
Technical & Career Writing	1	0.5
Family and Consumer Science		
Certified Nursing Assistant (CNA)	1	0.75
Family, Food and Society	1	0.5
Foundations of Early Childhood Education	1	0.5
Health, Safety and Nutrition	1	0.5
Housing, Interiors and Furnishings	1	0.5
Introduction to Health Careers	1	0.5
Intro to Managing Service in the Hospitality Industry	1	0.5
Intro to Service in the Hospitality Industry	1	0.5
Principles of Hospitality	1	0.5
Math		
Algebra	2	1.0
Algebra 2	2	1.0
AP Calculus AB	2	1.0
AP Statistics	2	1.0
Applied Math I	1	0.5
Applied Math II	1	0.5
Geometry	2	1.0
Pre-Calculus	2	1.0
Statistics	1	0.5
Trigonometry	1	0.5
Music		
Camerata (Advanced Choir)	3	1.5
Concert Band	3	1.5
Concert Choir	3	1.5
Jazz Ensemble	3	1.0
Music Survey	1	0.5
Music Theory	1	0.5
Symphonic Band	3	1.5
Physical Education & Health		
Adventure in Fitness	1	0.5

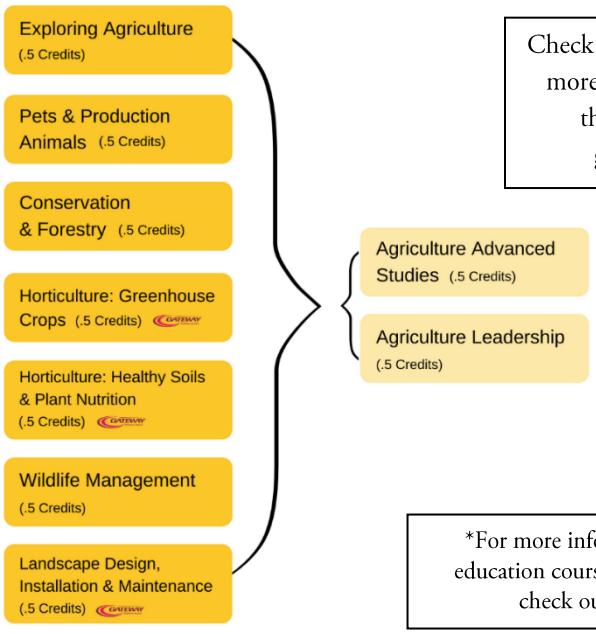
Fit Freshman	1	0.5
Fitness for Life	1	0.5
Hand Me Fitness	1	0.5
Have a Ball with Fitness	1	0.5
Health	1	0.5
Weight For Me 1	1	0.5
Weight For Me 2	1	0.5
Project Lead The Way		
Digital Electronics (DE)	2	1.0
Intro to Engineering Design (IED)	2	1.0
Principles of Engineering (POE)	2	1.0
Science		
Accelerated Biology	2	1.0
Accelerated Chemistry	2	1.0
Anatomy and Physiology	2	1.0
Animal Science	1	0.5
AP Biology	2	1.0
AP Chemistry	2	1.0
AP Physics 1	2	1.0
Biology	2	1.0
Botany	1	0.5
Chemistry	2	1.0
Ecology	1	0.5
Electronics	1	0.5
Forensic Science	1	0.5
Introduction to Astronomy	1	0.5
Physical Science	2	1.0
Physics	2	1.0
Social Studies		
AP Human Geography	2	1.0
AP Psychology	2	1.0
AP United States History	2	1.0
Civics (formerly American Government)	1	0.5
Current Issues	1	0.5
Economics	1	0.5
Human Geography	2	1.0
Sociology	1	0.5
United States History	2	1.0
Wisconsin History	1	0.5
Technology and Engineering		
Applied Engineering in the Fab Lab	1	0.5
Construction: Materials & Processes	1	0.5
Construction Production	2	1.0
Design Thinking in the Fab Lab	1	0.5
Drafting: CAD1 - 2D	1	0.5
Drafting: CAD2 - 3D	1	0.5
How to Make Almost Anything in Fab Lab	1	0.5
Introduction to Industrial Control Systems	1	0.5
Industrial Robotics and Programming	1	0.5
Metals: Advanced	1	0.5
Metals: Materials and Processes	1	0.5

Small Power Equipment	1	0.5
Woods: Furniture & Cabinet Construction	1	0.5
World Languages		
AP Spanish Language and Culture	2	1.0
Spanish I	2	1.0
Spanish II	2	1.0
Spanish III	2	1.0
Spanish IV	2	1.0
Other Electives		
ACT Prep	1	0.5
Advanced Yearbook Production	3	1.5
Communication Technology	1	0.5
Learning Center for Credit	1	0.5
Peer Tutoring	1	0.5
WIAA Officials Certification	1	0.5
Work Experience	1	0.5
Yearbook Production	3	1.5
Youth Apprenticeship	1	0.5

Agriculture

Graduation Requirements: 9.5 elective credits

Course Flow Chart



Check out the science section for even more awesome Agriculture courses that also meet science credit graduation requirements!

*For more information on career and technical education courses, certifications, clubs, and more check out the ETHS CTE website.

AGRICULTURE ADVANCED STUDIES **AGR503**

This course may be repeatable for credit.

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Prerequisites: Application and/or Conference with Teacher

Agriculture Advanced Studies is recommended for students interested in developing and working on an advanced agriculture project under the supervision of a teacher and community professional. Projects may include repair of mechanical equipment, propagation of plants, in-depth animal studies, veterinary studies, and conservation and land management projects. Interested students will conference with the teacher to determine project goals and plans and may be required to 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 **AGR302**

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

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 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 this class. It is for students about to enter the real world as productive citizens and valuable people.

CONSERVATION AND FORESTRY **AGR201**

Credit: 0.5 (1 trimester, offered 1st only)

Grade Level: 10, 11, 12

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 **AGR101**

Credit: 0.5 (1 trimester)

Grade Level: 9, 10

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 **AGR501**

Credit: 0.5 (1 trimester, offered 3rd only)

Grade Level: 10, 11, 12

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, as well as a variety of vegetables and houseplants in our high school greenhouse.

HORTICULTURE: HEALTHY SOILS **AGR502**

Credit: 0.5 (1 trimester, offered 1st only)

Grade Level: 10, 11, 12

Horticulture: Healthy Soils 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, 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 can replicate and take home.

LANDSCAPE DESIGN, INSTALLATION, & MAINTENANCE **AGR202**

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Landscape Design, Installation, and Maintenance is a hands-on course that focuses on landscaping principles and concepts which include 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 **AGR103**

Credit: 0.5 (1 trimester)

Grade Level: 9, 10 (11, 12 with department consent)

Pets and Production Animals 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.

WILDLIFE MANAGEMENT **AGR301**

Credit: 0.5 (1 trimester, offered 1st & 3rd trimester)

Grade Level: 10, 11, 12

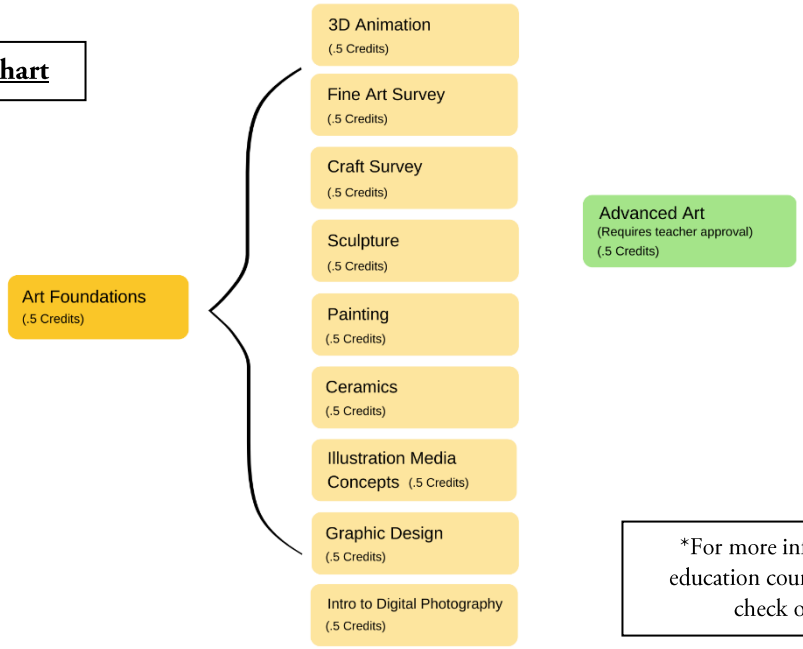
Wildlife Management is a hands-on outdoor course recommended for any student interested in wildlife and wilderness. Areas of focus include outdoor survival and various survival techniques, habitat creation and observation, fish taxidermy and lure making, wildlife photography, state and national park 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.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Art

Graduation Requirements: 9.5 elective credits

Course Flow Chart



*For more information on career and technical education courses, certifications, clubs, and more check out the ETHS CTE website.

3-D ANIMATION ART104

**This course is a new offering!*

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12
Prerequisites: Art Foundations or teacher approval

3-D Animation will introduce students to the world of computer-generated 3-D modeling and animation using the open-source software program Blender. Students will explore 3-D modeling, animation, and rendering using textures, materials, and light sources. Students will learn about different careers in 3-D animation, game design, and 3-D modeling.

ADVANCED ART ART501

Students may take this course for an additional trimester and receive an additional 0.5 elective credit (1.0 max credit).

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: 6 art courses or teacher approval

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.

ART FOUNDATIONS ART102

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12

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.

CERAMICS ART301

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Art Foundations

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 ART201

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Art Foundations

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 ART202

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Art Foundations

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 **ART304**

Credit: 0.5 (1 trimester, offered 1st and 2nd only)
Grade Level: 11, 12
Prerequisites: Art Foundations Recommended

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 and silk screen printing processes. There will be a field trip where students will take photographs and use them to create a final project.

ILLUSTRATION MEDIA CONCEPTS **ART203**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Art Foundations

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.

INTRODUCTION TO DIGITAL PHOTOGRAPHY **ART 204**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Art Foundations

Introduction to Digital Photography explores the use of digital photography, desktop scanning and photo manipulation software in the creation of photo compositions and support materials.

PAINTING **ART302**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Art Foundations

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 **ART303**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Art Foundations

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.

AVID

Graduation Requirements: 9.5 elective credits

The AVID Elective course is offered to students in grades 9-12. Students are selected for participation in the AVID Elective class through an application and screening process that includes a review of academic performance, a student application, and an interview.

To learn more about AVID and how to apply, check out the AVID section on the ETHS website.

Students who are part of the AVID Elective class have individual determination to reach their goal of attending post-secondary education. The AVID Elective class provides students with academic tools, access to resources, and the structure to thrive in rigorous courses and post-secondary plans. Students learn organizational skills, develop critical thinking by asking probing questions, get academic help from peers and tutors, and participate in enrichment and motivational activities that make college and career success attainable.

AVID 9 ELE101, 102, 103

Credit: 1.5 (3 trimesters)
Grade Level: 9
Prerequisites: Application

AVID 9 (Advancement Via Individual Determination) is an academic elective course that prepares students for career and college readiness and success. Each week, students receive instruction utilizing a rigorous curriculum provided by AVID, collaborative study groups, analytical reading and writing, communication skills, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization and reading to support their academic growth. Students will increase awareness of their personal contributions to their learning, as well as their involvement in their school and community. Students will refine study and test-taking skills and note-taking techniques.

AVID 10 ELE204, 205, 206

Students can earn an additional 0.5 credit if taken 3rd trimester
Credit: 1.0 (2 trimesters, 1st & 2nd trimester with optional 3rd)
Grade Level: 10
Prerequisites: AVID 9 or Application

AVID 10 (Advancement Via Individual Determination) is the second course in the AVID elective sequence that prepares students for career and college success. Each week, students receive instruction utilizing a rigorous curriculum provided by AVID, collaborative study groups, analytical reading and writing, communication skills, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization and reading to support their academic growth. In the 10th grade year, students will continue to refine their academic learning plans and goals, increasing awareness of their actions and behaviors, as well as develop an increased ability to self-monitor, self-regulate, and manage time. Students will continue to explore their post-secondary options.

AVID 11 ELE301, 302, 303

Students can earn an additional 0.5 credit if taken 3rd trimester
Credit: 1.0 (2 trimesters, 1st & 2nd trimester with optional 3rd)
Grade Level: 11
Prerequisites: AVID 10 or Application

AVID 11 (Advancement Via Individual Determination) is the first part in a junior/senior seminar course sequence that focuses on writing and critical thinking expected of first and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies and tasks that should be undertaken during the junior year to support students as they apply to four-year universities and confirm their postsecondary plans.

AVID 12 ELE404, 405, 406

Students can earn an additional 0.5 credit if taken 3rd trimester
Credit: 1.0 (2 trimesters, 1st & 2nd trimester with optional 3rd)
Grade Level: 12
Prerequisites: AVID 11 or Application

AVID 12 (Advancement Via Individual Determination) is the second part in a junior/senior seminar course sequence that focuses on writing, inquiry, collaboration, organization and reading to support their academic growth. Students will continue to refine their academic learning plans and goals, create legacy projects including service-learning projects/mentoring, as well as develop an increased ability to self-monitor, self-regulate, and manage time. Students will expand their writing portfolio to include: an argumentative research paper on a social issue and detailed reflections. Lastly, Students will prepare for college through inquiry based collaborative study groups utilizing higher order thinking questioning techniques.

Business

Graduation Requirements: 9.5 elective credits

Course Flow Chart

*For more information on career and technical education courses, certifications, clubs, and more check out the ETHS CTE website.

✳ Students who complete Advanced Microsoft Office and/or Microsoft Office may earn Microsoft Specialist Certifications.

★ Students who complete Microsoft Office Applications, Advanced Microsoft Office Applications, Accounting Principles, and Advanced Accounting may earn a Payroll Assistant Certification.

ACCOUNTING PRINCIPLES **BIT501-502**

Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12

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.

Certification Opportunities: Payroll Assistant Certification (must complete Microsoft Office Applications, Advanced Microsoft Office, Accounting Principles, Advanced Accounting)

ADVANCED ACCOUNTING **BIT503-504**

Credit: 1.0 (2 trimesters)
Grade Level: 11, 12
Prerequisites: Accounting Principles

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.

Certification Opportunities: Payroll Assistant Certification (must complete Microsoft Applications, Advanced Microsoft Office, Accounting Principles, Advanced Accounting)

ADVANCED MIRCOSOFT OFFICE **BIT505**

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12
Prerequisites: Microsoft Office Applications

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.

Certification Opportunities: Payroll Assistant Certification (must complete Microsoft Applications, Advanced Microsoft Office, Accounting Principles, Advanced Accounting), Microsoft Office Specialist Certification

BUSINESS LAW **BIT301**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12

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 **BIT101**

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

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 **BIT202**

Credit: 0.5 (1 trimester, offered 2nd and 3rd only)

Grade Level: 11, 12

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 **BIT102**

Credit: 0.5 (1 trimester, offered 2nd and 3rd only)

Grade Level: 9, 10, 11, 12

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.

Certification Opportunities: Payroll Assistant Certification (must complete Microsoft Applications, Advanced Microsoft Office, Accounting Principles, Advanced Accounting), Microsoft Office Specialist Certification

PERSONAL FINANCE **BIT201**

Credit: 0.5 (1 trimester, offered 2nd and 3rd only)

Grade Level: 10, 11, 12

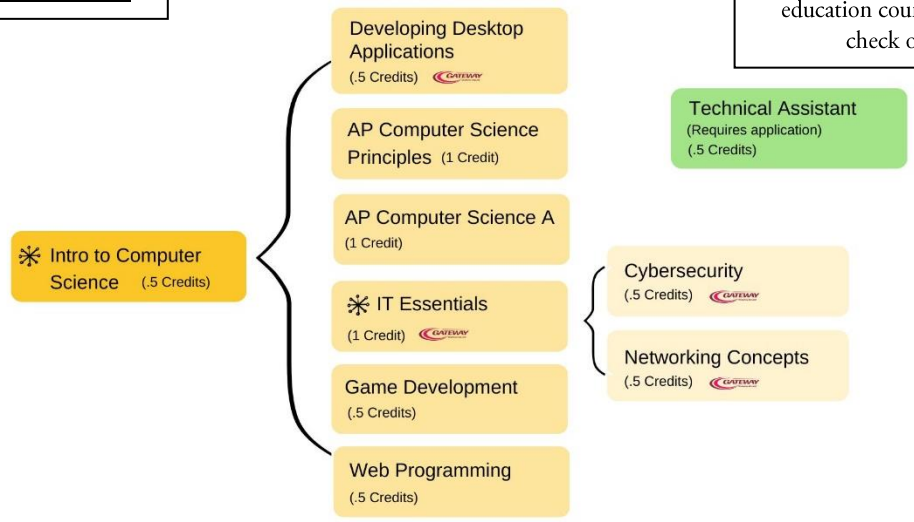
Personal Finance will provide a foundational understanding for making informed personal financial decisions and help build a successful financial future by helping students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will 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.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Computer Science

Graduation Requirements: 9.5 elective credits

Course Flow Chart



Students who complete Introduction to Computer Science, IT Essentials, and pass the CompTIA Exam will receive a CompTIA A+ certification.

*For more information on career and technical education courses, certifications, clubs, and more check out the ETHS CTE website.

AP COMPUTER SCIENCE A **COM501-502**

This course is offered every other year (offered 2024-2025, 2026-2027, 2028-2029, 2030-2031)

Credit: 1.0 (2 trimesters, offered 1st and 2nd only)

Grade Level: 10, 11, 12

Prerequisites: 1.5 credits of computer science courses

AP Computer Science A introduces students to object-oriented programming while reinforcing previously learned concepts. Students learn about inheritance, polymorphism, encapsulation, recursion, data structures, and data processing techniques by developing programs in Java. In addition, students practice designing, testing, debugging, and documenting programs both individually and collaboratively through open-ended projects. At the end of the course, students take the Advanced Placement exam. This course is recommended to students who want to pursue a career in Software Engineering.

AP COMPUTER SCIENCE PRINCIPLES **COM503-504**

This course is offered every other year (offered 2023-2024, 2025-2026, 2027-2028, 2029-2030)

Credit: 1.0 (2 trimesters, offered 1st and 2nd only)

Grade Level: 10, 11, 12

Prerequisites: Introduction to Computer Science

AP Computer Science Principles provides students with a foundation in computer science. The course assumes no prior knowledge of computer science and is written to support students who are new to the discipline. Students explore principles related to the Internet, digital information, big data, cybersecurity, and programming. Students analyze the impact of computing innovations and develop basic web applications using JavaScript and HTML. At the end of the course, students take the Advanced Placement exam. This course is recommended to students who want to explore careers in Information Technology.

CYBERSECURITY **COM510**

This course is offered every other year (offered 2023-2024, 2025-2026, 2027-2028, 2029-2030)

Credit: 0.5 (1 trimester)

Grade Level: 10, 11, 12

Prerequisites: IT Essentials

Cybersecurity provides students the opportunity to continue exploring cybersecurity concepts introduced in IT Essentials. Students will receive hands-on experience implementing security measures to protect a computer and network from a variety of security threats. Students will learn about the ten key security technologies: access control, network security, management security procedures, systems development security, cryptography, security models, operations security, disaster recover, laws and ethics, and physical security. This course is recommended to students who want to pursue a career in Cybersecurity.

Certification Opportunities: Comp TIA Security+ Certification (must also complete Introduction to Computer Science, IT Essentials, and pass the CompTIA exam)

DEVELOPING DESKTOP APPLICATIONS **COM102**

Credit: 0.5 (1 trimester, offered 2nd and 3rd only)

Grade Level: 9, 10, 11, 12

Prerequisites: Introduction to Computer Science

Developing Desktop Applications introduces students to event-driven programming while reinforcing previously learned concepts. Students develop programs in C# .NET, focusing on user interface design and incorporating databases. After taking this course, students will be able to design applications that utilize a database. This course is recommended to students who want to pursue a career in Software Engineering.

GAME DEVELOPMENT **COM511**

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12
Prerequisites: Introduction to Computer Science

Game Development provides students the opportunity to build on prior computer science knowledge and concepts through game development. Students will learn to create exciting games that can be shared with others while learning how to become better problem-solvers through the art of computer programming. Throughout this course, students will tie computer science concepts from previous courses (conditionals, randomness, and objects) with important aspects of game design such as user input, level design, and multiplayer games. This course is recommended for students who want to pursue a career in Software Engineering and Information Technology.

INTRODUCTION TO COMPUTER SCIENCE **COM101**

Credit: 0.5 (1 trimester, offered 1st and 2nd only)
Grade Level: 9, 10, 11, 12
Prerequisites: Algebra (may be concurrently enrolled)

Introduction to Computer Science introduces students to the fundamentals of programming. Students learn about sequencing, selection, iteration, and data management by developing programs in Python both individually and collaboratively. After taking this course, students will know how computers execute software and be able to write well-formed code. This course is recommended to students who want to explore careers in Information Technology.

Certification Opportunities: Comp TIA A+ Certification (must complete Introduction to Computer Science, IT Essentials, and pass the CompTIA exam)

IT ESSENTIALS **COM201-202**

Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12
Prerequisites: Introduction to Computer Science

IT Essentials introduces students to computer hardware and networking principles. Students explore the Windows operating system; hardware installation, configuration, diagnostics, and repair; network topology; and Internet protocols. Students will combine theoretical lessons with hands-on activities to better understand hardware and networking concepts. At the end of the course, students take the CompTIA A+ exam to earn an industry recognized certification. This course is recommended to students who want to pursue a career in Network Systems or Information Support & Services.

Certification Opportunities: Comp TIA A+ Certification (must complete Introduction to Computer Science, IT Essentials, and pass the CompTIA exam)

NETWORKING CONCEPTS **COM509**

This course is offered every other year (offered 2024-2025, 2026-2027, 2028-2029, 2030-2031)
Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: IT Essentials

Networking Concepts provides students the opportunity to continue exploring networking concepts introduced in IT Essentials. Students will receive hands-on experience with Windows Server, Windows-based networking, network management tools, DNS, TCP/IP, names resolution process, and network protocols and topologies. This course is recommended for students who want to pursue a career in Network Systems or Information Support & Services.

Certification Opportunities: Comp TIA Networking+ Certification (must also complete Introduction to Computer Science, IT Essentials, and pass the CompTIA exam)

TECHNICAL ASSISTANT **COM203**

Students may take this course for an additional trimester and receive an additional 0.5 elective credit (1.0 max credit).
Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Application

Technical Assistant is 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.

WEB PROGRAMMING **COM103**

This course is a new offering and has not yet been approved for transcripted credit.
Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12
Prerequisites: Introduction to Computer Science

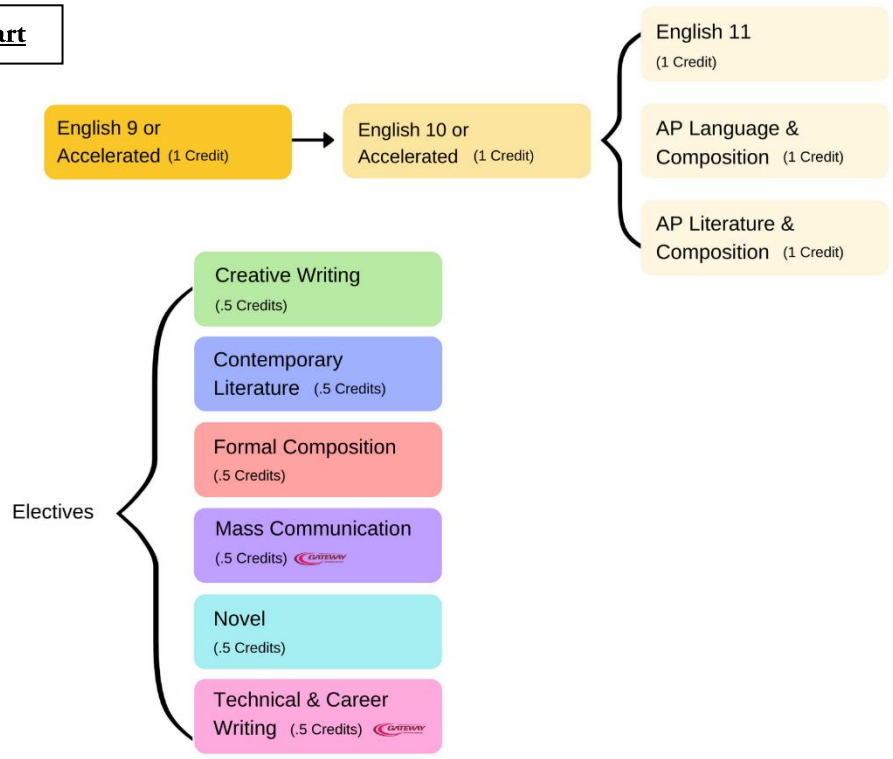
Web Programming provides students the opportunity to create websites using HTML and CSS. Students will explore fundamental IT skills, standards-based coding, and web page design techniques. Students will practice image manipulation and working with forms, tables, and multimedia. Students will examine accessibility issues, code validation, web content publishing, and an introduction to JavaScript. Upon completion of this course, students will be able to create a complete website using HTML and CSS for delivery to various platforms. This course is recommended for students who want to pursue a career in Web Development.

English

Graduation Requirements: 4.0 English credits, 9.5 elective credits

English 9 or accelerated (1.0 credit),
English 10 or accelerated (1.0 credit),
English 11 or AP Language & Composition or AP Literature & Composition (1.0 credit), English choice (1.0 credit)

Course Flow Chart



ACCELERATED ENGLISH 9 ELA103-104
Credit: 1.0 (2 trimesters)
Grade Level: 9
Prerequisites: 8th grade teacher recommendation & testing data
Accelerated English 9 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, supplemental vocabulary, independent reading, and additional writing.

ACCELERATED ENGLISH 10 ELA203-204
Credit: 1.0 (2 trimesters)
Grade Level: 10
Prerequisites: Accelerated English 9 and/or department consent
Accelerated English 10 emphasizes in-depth research, writing, analyzing various texts, and speaking in formal situations. Students will write essays, analyze poetry, and study Shakespeare. Coursework is taught at an accelerated pace through the application of a wider variety of course materials, independent reading, and discussions.

AP LANGUAGE AND COMPOSITION ELA501-502
Credit: 1.0 (2 trimesters, offered 1st & 2nd only)
Grade Level: 11, 12
Prerequisites: GPA of 3.0 or higher or department consent
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 of 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 AND COMPOSITION ELA503-504
Credit: 1.0 (2 trimesters, offered 1st & 2nd only)
Grade Level: 11, 12
Prerequisites: GPA of 3.0 or higher or department consent
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 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 such 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 **ELA402**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: English 9
Contemporary Literature is a discussion and project-oriented course centered on high-interest 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.

CREATIVE WRITING **ELA401**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: English 10 or department consent
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.

ENGLISH 9 **ELA101-102**

Credit: 1.0 (2 trimesters)
Grade Level: 9
English 9 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.

ENGLISH 10 **ELA201-202**

Credit: 1.0 (2 trimesters)
Grade Level: 10
Prerequisites: English 9
English 10 emphasizes basic skills in writing, analyzing literature, speaking and conducting research. Students will analyze poetry, a novel, a play, and other fiction and non-fiction texts as well as write essays and a term paper.

ENGLISH 11 **ELA301-302**

Credit: 1.0 (2 trimesters)
Grade Level: 11
Prerequisites: English 10
English 11 integrates reading, writing, and speaking skills in hands-on, project-oriented activities. Students will read an American drama, 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.

FORMAL COMPOSITION **ELA505**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: English 10 or department consent
Formal Composition is recommended for college-bound students not planning to take AP Language and 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.

MASS COMMUNICATION **ELA403**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: English 9
Mass Communication is geared toward students who plan on entering a two-year tech school or the military. It covers techniques of verbal and non-verbal communication. Presentation techniques in informative, demonstrative, persuasive, and impromptu situations are stressed.

NOVEL **ELA506**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: English 10 or department consent
Novel is recommended to the college-bound student. This course emphasizes the critical analysis of various novels and their metaphorical and literal meanings. 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.

TECHNICAL AND CAREER WRITING **ELA404**

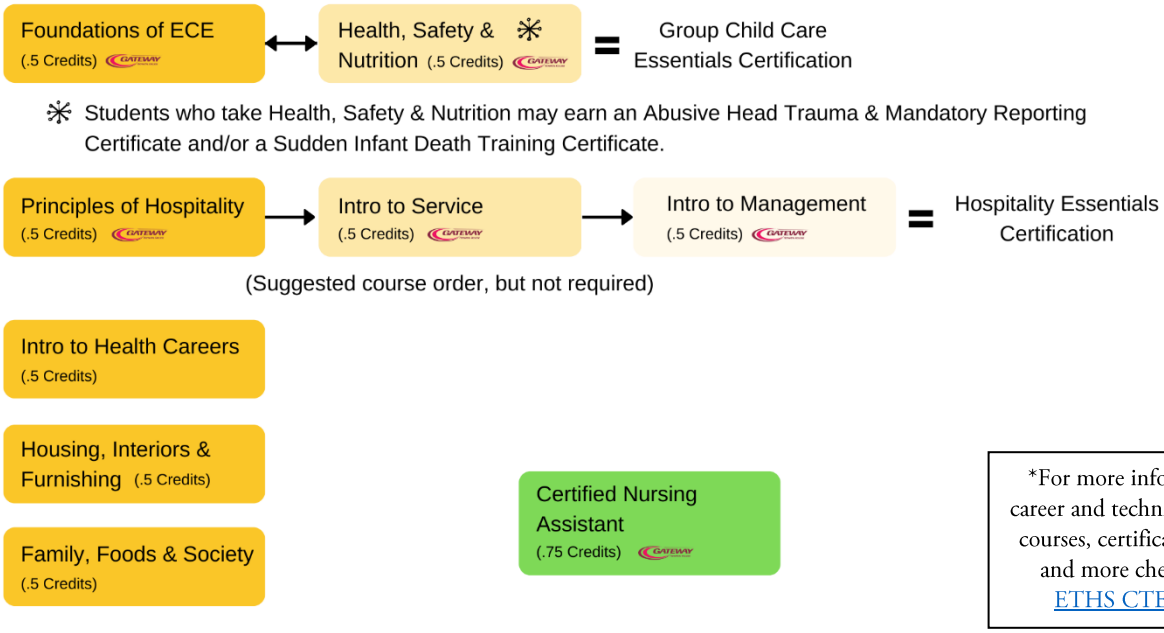
Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: English 10 or department consent
Technical and Career Writing is geared toward students who plan on entering a two-year tech school or the military. This course focuses on practical writing skills for the 21st century with a work-place emphasis including cover letters, resumes, and technical writing.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Family and Consumer Science

Graduation Requirements: 9.5 elective credits

Course Flow Chart



*For more information on career and technical education courses, certifications, clubs, and more check out the ETHS CTE website.

CERTIFIED NURSING ASSISTANT (CNA) SCN300

Credit: 0.75
Grade Level: 11, 12
Students must complete the Start College Now Application no later than March 1 for fall semester of the technical college and October 1 for the spring semester. Talk with your counselor for more details on scheduling this opportunity.
Certified Nursing Assistant (CNA) is a contracted course taught through Gateway Technical College at East Troy High School that prepares students to perform basic nursing skills when 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. This course is offered through Start College Now. For more info, on Start College Now please review the "Early College Credit Program, Start College Now, and VANGuard" section on page 9.

FAMILY, FOOD AND SOCIETY FCS101

This course is repeatable.
Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12
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 basics, 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.

Certification Opportunities: ServSafe Food Handler Certification (must pass ServSafe Food Handler assessment)

FOUNDATIONS OF EARLY CHILDHOOD EDUCATION FCS106

Credit: 0.5 credits (1 trimester)
Grade Level: 9, 10, 11, 12
Foundations of Early Childhood Education introduces you to the early childhood profession. Course competencies include: integrate strategies that support diversity and anti-bias perspectives; investigate the history of childhood education; summarize types of early childhood settings; identify the components of a quality early childhood education program; summarize responsibilities of early childhood professionals; and explore early childhood curriculum models.

Certification Opportunities: Group Child Care Essentials Certification (must complete Foundations of Early Childhood Education and Health, Safety and Nutrition)

HEALTH, SAFETY AND NUTRITION FCS112

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12
Health, Safety and Nutrition integrates strategies that support diversity and anti-bias perspectives; follow governmental regulations and professional standards as they apply to health, safety, and nutrition; provide a safe early childhood program; provide a healthy early childhood program; provide a nutritionally sound early childhood program, adhere to child abuse and neglect mandates; apply Sudden Infant Death Syndrome (SIDS) risk reduction strategies; and incorporate health safety and nutrition concepts into the children's curriculum.

Certification Opportunities: Group Child Care Essentials Certification (must complete Foundations of Early Childhood Education and Health, Safety and Nutrition), Abusive Head Trauma & Mandatory Reporting Certificate, Sudden Infant Death Training Certificate

HOUSING, INTERIORS, AND FURNISHINGS FCS103

Grade Level: 1 trimester

Prerequisites: 9, 10, 11, 12

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.

INTRODUCTION TO HEALTH CAREERS FCS111

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

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 will have the opportunity to complete a job shadow experience.

Certification Opportunities: CPR, First Aid, and EPI Pen training (may be available for a small fee)

INTRODUCTION TO MANAGING SERVICE IN THE HOSPITALITY INDUSTRY FCS110

****This course is offered every other year (offered 2024-2025, 2026-2027, 2028-2029, 2030-2031)***

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

Prerequisites: Introduction to Service in the Hospitality Industry (recommended but not required)

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.

Certification Opportunities: Hospitality Essentials Certification (must complete Principles of Hospitality, Intro to Service in the Hospitality Industry, and Intro to Managing Service in the Hospitality Industry)

INTRODUCTION TO SERVICE IN THE HOSPITALITY INDUSTRY FCS109

****This course is offered every other year (offered 2023-2024, 2025-2026, 2027-2028, 2029-2030)***

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

Prerequisites: Principles of Hospitality (recommended but not required)

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.

Certification Opportunities: Hospitality Essentials Certification (must complete Principles of Hospitality, Intro to Service in the Hospitality Industry, and Intro to Managing Service in the Hospitality Industry)

PRINCIPLES OF HOSPITALITY FCS108

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

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.

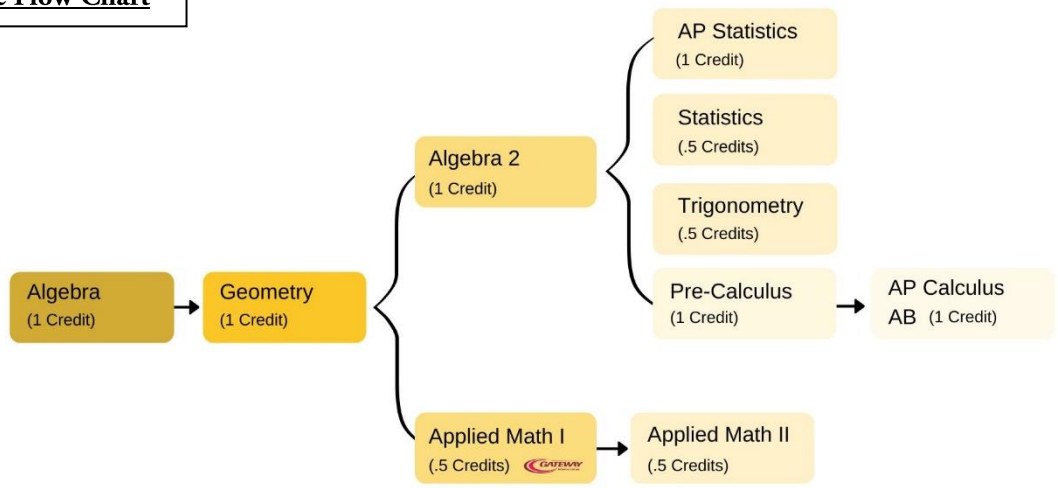
Certification Opportunities: Hospitality Essentials Certification (must complete Principles of Hospitality, Intro to Service in the Hospitality Industry, and Intro to Managing Service in the Hospitality Industry)

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Mathematics

Graduation Requirements: 3.0 English credits, 9.5 elective credits
Algebra (1.0 credit), Geometry (1.0 credit), math choice (1.0 credit)

Course Flow Chart



ALGEBRA **MTH101-102**
Credit: 1.0 (2 trimesters)
Grade Level: 9, 10, 11, 12
Core Connections Algebra aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, inequalities, and systems. These skills are extended to solving quadratic equations, exploring linear, quadratic, and exponential functions graphically, numerically, symbolically, and as sequences, and by using regression techniques to analyze the fit of models to distributions of data.

ALGEBRA 2 **MTH107-108**
Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12
Prerequisites: Geometry
Core Connections Algebra 2 aims to apply and extend what students have learned in previous courses by focusing on finding connections between multiple representations of functions, transformations of different function families, finding zeros of polynomials and connecting them to graphs and equations of polynomials, modeling periodic phenomena with trigonometry, and understanding the role of randomness and the normal distribution in making statistical conclusions.

AP CALCULUS AB **MTH503-504**
Credit: 1.0 (2 trimesters, offered 1st and 2nd)
Grade Level: 12
Prerequisites: Pre-Calculus
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.

AP STATISTICS **MTH506-507**
Credit: 1.0 (2 trimesters, offered 1st and 2nd)
Grade Level: 11, 12
Prerequisites: Algebra 2
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.

APPLIED MATH I **MTH301**
Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Geometry
Applied Math I 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.

APPLIED MATH II **MTH302**
Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Applied Math I
Applied Math II is a continuation of Applied Math I which 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.

GEOMETRY **MTH109-110**

Credit: 1.0 (2 trimesters)
Grade Level: 9, 10, 11, 12
Prerequisites: Algebra

Core Connections Geometry aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions and building a formal understanding of similarity based on dilations and proportional reasoning. It also helps students develop the concepts of formal proof, explore the properties of two- and three-dimensional objects, work within the rectangular coordinate system to verify geometric relationships and prove basic theorems about circles. Students also use the language of set theory to compute and interpret probabilities for compound events.

PRE-CALCULUS **MTH501-502**

Credit: 1.0 (2 trimesters)
Grade Level: 11, 12
Prerequisites: Algebra 2

Pre-calculus includes an introduction to calculus with functions, graphs, limits, area under a curve, and rates of change. On a daily basis, students work collaboratively with others as they use problem-solving strategies, complete investigations, gather evidence, critically analyze results, and communicate clear and effective arguments while justifying their thinking. The course is well balanced among procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (application and extension). Algebraic manipulation is practiced throughout the course as students work with limits, rates of change, trigonometric expressions, complex numbers, series, conic sections, and area under the curve.

STATISTICS **MTH505**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Algebra 2

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 **MTH508**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Algebra 2

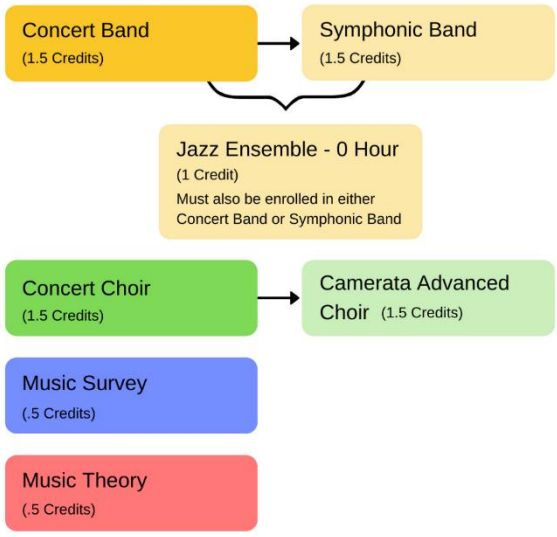
Trigonometry is recommended to students entering a math/science related field. Students will study the relationship between length of sides and measure of angles of triangles. They will investigate the six trigonometric functions and their inverses algebraically, numerically, and graphically. They will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

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Music

Graduation Requirements: 9.5 elective credits

Course Flow Chart



CAMERATA (ADVANCED CHOIR) **MUS504,505,506**

Credit: 1.5 (3 trimesters)

Students can earn 0.5 credit per trimester

Grade Level: 10, 11, 12

Prerequisites: Concert Choir or Director Consent

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 explores 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.

CONCERT BAND **MUS101,102,103**

Credit: 1.5 (3 trimesters)

Students can earn 0.5 credit per trimester

Grade Level: 9, 10, 11, 12

Concert Band is for students with previous band experience emphasizing the development of basic individual and ensemble instrumental music skills. This class emphasizes the development of basic musical skills both on an individual and ensemble basis through daily rehearsals, individual lessons, and performances. While Concert Band is the primary emphasis of this course, students will also experience marching band, pep band, parades, solo and ensemble contest and other events.

CONCERT CHOIR **MUS104,105,106**

Credit: 1.5 (3 trimesters)

Students can earn 0.5 credit per trimester

Grade Level: 9, 10, 11, 12

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 explores 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.

JAZZ ENSEMBLE **MUS107,108,109**

****This course is only offered during "zero-hour".***

Credit: 1.0 (3 trimesters)

Grade Level: 9, 10, 11, 12

Prerequisites: Concurrently enrolled in Concert or Symphonic Band or Director Consent

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 **MUS110**

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

Music Survey is recommended to students who enjoy music but do not wish to perform. Students will gain insight into music composition and music's relationship to our culture and other cultures through various texts, audios, and MIDI technology. Musical connections to dance, musical theater, film and opera, advertising, and music styling from various generations will be explored.

MUSIC THEORY **MUS111**

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

Music Theory is recommended for students that want to learn about the structure and form of written music but do not wish to perform, and includes concepts not covered in 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 **MUS501,502,503**

Students are encouraged to enroll for all 3 trimesters

Students can earn 0.5 credit per trimester

Credit: 1.5 (3 trimesters)

Grade Level: 10, 11, 12

Prerequisites: Audition and/or Director Consent

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. This class emphasizes the development of intermediate to advanced musical skills both on an individual and ensemble basis through daily rehearsals, individual lessons, and performances. Members will participate in marching band, pep band, and the solo ensemble festival.

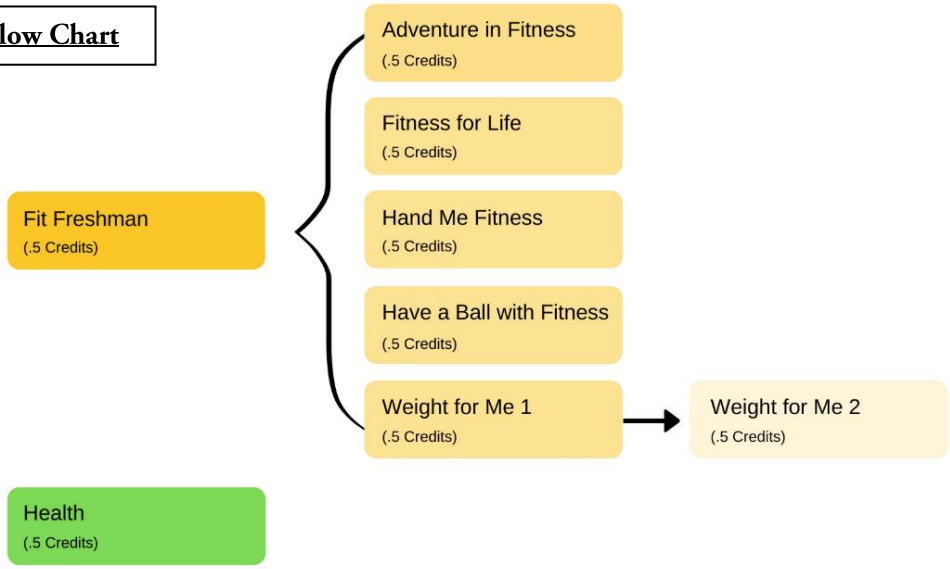
=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Physical Education and Health

Graduation Requirements: 1.5 physical education credits, 0.5 health credits, 9.5 elective credits

9th grade: Fit Freshman (0.5 credit), Health (0.5 credit),
10th grade physical education choice (0.5 credit),
11th grade physical education choice (0.5 credit)

Course Flow Chart



ADVENTURE IN FITNESS PHY301
Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: Fit Freshman
Adventure in Fitness is designed for students who are interested in adventure education and is usually held outdoors. 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.

FIT FRESHMAN PHY101
Credit: 0.5 (1 trimester)
Grade Level: 9
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, and active life.

FITNESS FOR LIFE PHY201
Students may take this course for an additional trimester and receive an additional 0.5 elective credit (1.0 max credit).
Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Fit Freshman or department consent
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 encounter 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 PHY202
Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Fit Freshman or department consent
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 PHY203
Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Fit Freshman or department consent
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 PHY102
Credit: 0.5 (1 trimester)
Grade Level: 9
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 PHY204

This course is also offered during zero hour.

Credit: 0.5 (1 trimester)

Grade Level: 10, 11, 12

Prerequisites: Fit Freshman

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.

WEIGHT FOR ME 2 PHY302

Students may take this course for an additional trimester and receive an additional 0.5 elective credit (1.0 max credit).

This course is also offered during zero hour.

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Prerequisites: Weight for Me 1

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.

WEIGHT FOR ME (ZERO HOUR WEIGHTS) PHY103,104,105

This course is a combined Weight for Me 1 and 2 course offered during a reduced time during zero hour for students interested in weight training.

Credit: Credit: 1.0 (3 trimesters)

Grade Level: 10, 11, 12

Prerequisites: Fit Freshman

Weight For Me (Zero Hour Weights) 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.

 =Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

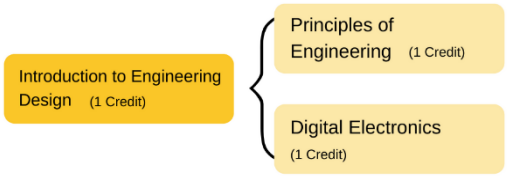
Project Lead The Way (PLTW)

Graduation Requirements: 9.5 elective credits

Engineering Pathway

PLTW Engineering empowers students to step into the role of an engineer and adopt a problem-solving mindset. The program engages students in collaborative, real-world activities like working with a client to design a home, programming electronic devices or robotic arms, or exploring algae as a biofuel source. As students work together to design and develop solutions to local and global challenges, they engage in problem-solving strategies and critical and creative thinking. The program's sequence of courses empowers students to develop in-demand knowledge and skills they'll use in high school and for the rest of their lives, on any career path they take.

Engineering Pathway Course Flow



PROJECT LEAD THE WAY PLTW
Preparing students for the global economy

*Students participating in PLTW courses may have opportunities to earn scholarships, college credit, and preferred admission to colleges and universities. Check with your counselor for more info.

DIGITAL ELECTRONICS (DE) **PLW301, 302**

This course is offered every other year (offered 2023-2024, 2025-2026, 2027-2028)

Credit: 1.0 (2 trimesters)

Grade Level: 11, 12

Prerequisites: IED or POE, Algebra, Geometry

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

INTRODUCTION TO ENGINEERING DESIGN (IED) **PLW101, 102**

This course is offered every other year (offered 2023-2024, 2025-2026, 2027-2028)

Credit: 1.0 (2 trimesters)

Grade Level: 9, 10, 11, 12

Prerequisites: Algebra (may be concurrently enrolled)

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use of an engineering notebook to document their work.

PRINCIPLES OF ENGINEERING (POE) **PLW303, 304**

This course is offered every other year (offered 2024-2025, 2026-2027, 2028-2029)

Credit: 1.0 (2 trimesters)

Grade Level: 11, 12

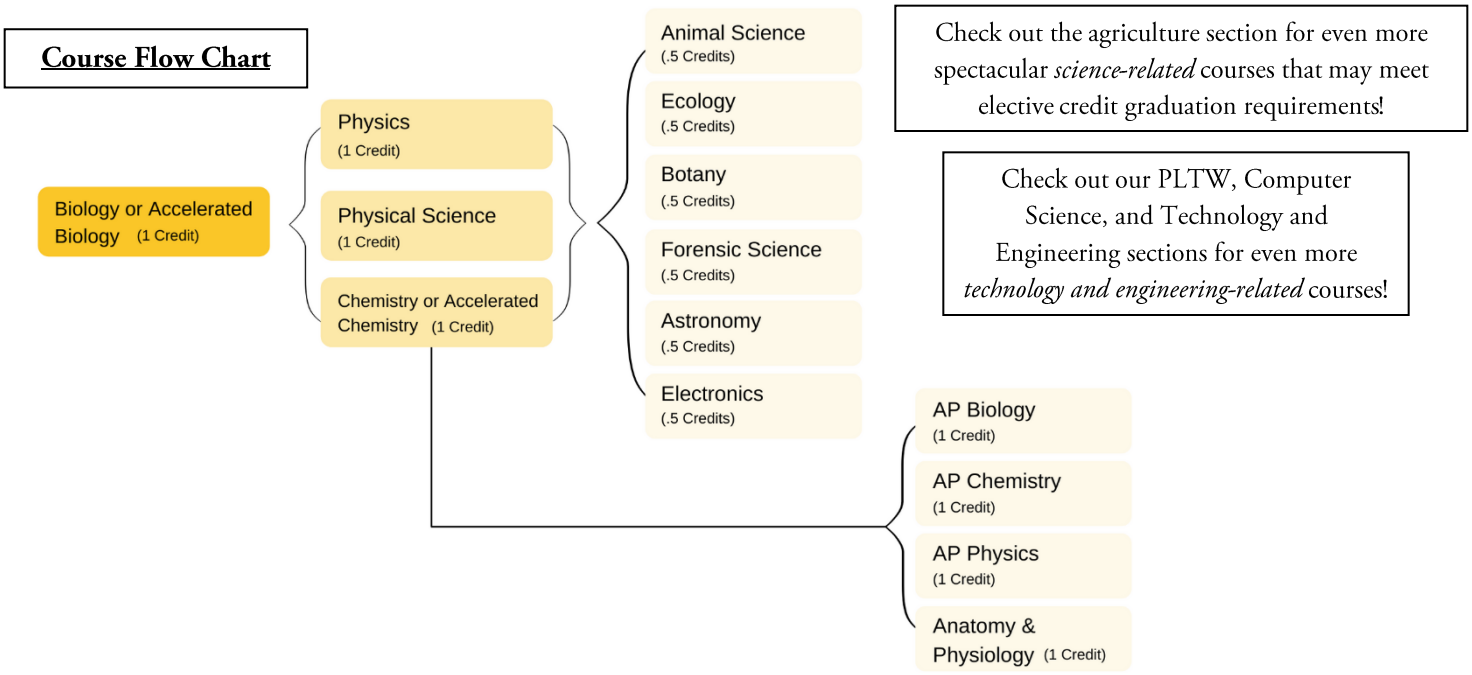
Prerequisites: Algebra, recommend IED and Geometry (may be concurrently enrolled)

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Science

Graduation Requirements: 3.0 science credits, 9.5 elective credits
biology or accelerated (1.0 credit), physical science choice (1.0 credit), science choice (1.0 credit)



ACCELERATED BIOLOGY **SCI 103-104**

This course meets the biology credit requirement

Credit: 1.0 (2 trimesters)

Grade Level: 9

Prerequisites: 8th grade recommendation or department consent

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 **SCI 501-502**

This course meets the physical science choice credit requirement

Credit: 1.0 (2 trimesters)

Grade Level: 10, 11, 12

Prerequisites: Accelerated Biology or recommendation

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.

ANATOMY AND PHYSIOLOGY **SCI301-302**

Credit: 1.0 (2 trimesters)

Grade Level: 11, 12

Prerequisites: Biology, Chemistry

Anatomy and Physiology is recommended for students interested in health careers. This course 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 **SCI109**

Credit: 0.5 (1 trimester)

Grade Level: 10, 11, 12

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 **SCI503-504**

Credit: 1.0 (2 trimesters, offered 1st and 2nd only)

Grade Level: 11, 12

Prerequisites: Biology & Chemistry

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 **SCI505-506**

Credit: 1.0 (2 trimesters, offered 1st and 2nd only)
Grade Level: 11, 12
Prerequisites: Chemistry (Accelerated Chemistry recommended)
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 1 **SCI509-510**

Credit: 1.0 (2 trimesters, offered 1st and 2nd only)
Grade Level: 11, 12
Prerequisites: Physics recommended, Algebra 2
Students may be concurrently enrolled in Algebra 2
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.

BIOLOGY **SCI101-102**

This course meets the biology credit requirement
Credit: 1.0 (2 trimesters)
Grade Level: 9
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 **SCI304**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Botany is a project-based, advanced agriculture for science credit course with a focus on plants. 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 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.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

CHEMISTRY **SCI201-202**

This course meets the physical science choice credit requirement
Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12
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, periodic trends, chemical reactions, energy, stoichiometry, and gas laws.

ECOLOGY **SCI305**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
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 **SCI204**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
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 in a circuit to form power supplies, amplifiers, and other electronic devices.

FORENSIC SCIENCE **SCI306**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Forensic Science introduces 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 **SCI307**

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
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.

PHYSICAL SCIENCE **SCI105-106**

This course meets the physical science choice credit requirement
Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12
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.

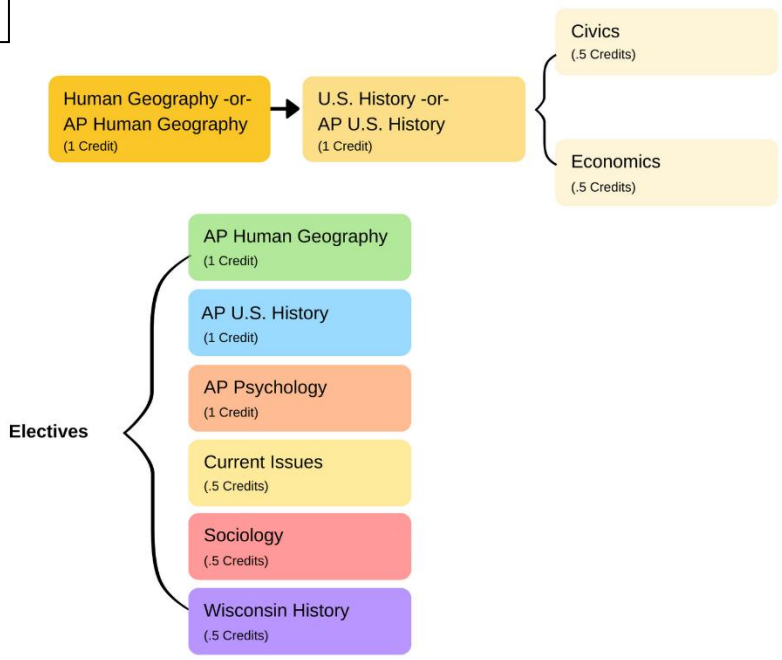
PHYSICS **SCI205-206**

This course meets the physical science choice credit requirement
Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12
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.

Social Studies

Graduation Requirements: 3.0 social studies credits, 9.5 elective credits
Human Geography or AP Human Geography (1.0 credit), U.S. History or AP U.S. History (1.0 credit), Civics (0.5 credit), Economics (0.5 credit)

Course Flow Chart



AP HUMAN GEOGRAPHY — SOC501-502

Credit: 1.0 (2 trimesters, 1st & 2nd only)
Grade Level: 9, 10, 11, 12
Prerequisites: recommendation or department consent
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. Why are so many resource-rich African countries poor? Is China really a communist country? If the global population is increasing, why are so many developed countries encouraging more births? We'll explore these topics and more as we examine our modern world.

AP PSYCHOLOGY — SOC503-504

Credit: 1.0 (2 trimesters, 1st & 2nd only)
Grade Level: 11, 12
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 always expected.

AP U.S. HISTORY — SOC505-506

Credit: 1.0 (2 trimesters, 1st & 2nd only)
Grade Level: 10, 11, 12
Prerequisites: Human Geography or AP Human Geography
Recommendation or department consent is needed if taken to fulfill U.S. History course requirement
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.

CIVICS (formerly American Government) — SOC301

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Civics 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.

CURRENT ISSUES SOC508

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: United States History or department consent
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 communities face on a local, regional, national, and international scope.

ECONOMICS SOC302

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Economics is designed 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 play 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.

HUMAN GEOGRAPHY SOC103-104

Credit: 1.0 (2 trimesters)
Grade Level: 9
Why do different countries speak different languages? Why are religions practiced in some regions of the world, but not others? Why do populations of different regions fluctuate? In an era of globalization and interconnectedness, we should better understand how humans and landscapes are intertwined. The Human Geography course will study patterns of humans (and how we are influenced by geography and how geography influences humans). While historians use time to explain the world, human geographers use space (not outer space). Human geography is the study of history, religion, politics, economics, sociology, psychology, and other sciences, but through a spatial perspective. This course aims to deepen a student's understanding of the world and how its people interact within it.

SOCIOLOGY SOC304

Credit: 0.5 (1 trimester)
Grade Level: 11, 12
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.

U.S. HISTORY SOC201-202

Credit: 1.0 (2 trimesters)
Grade Level: 9, 10
United States History provides a broad view of the United States from Native American culture to the present through the continued application of social studies analytical skills along with class activities, tests, quizzes, and projects. 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.

WISCONSIN HISTORY SOC305

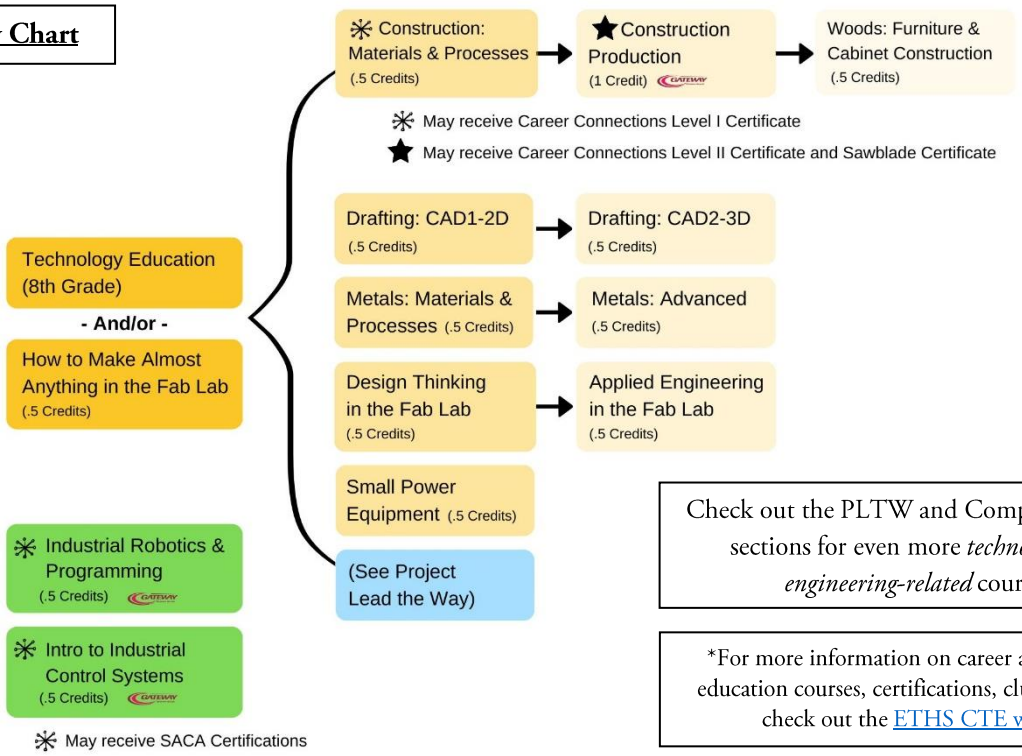
Credit: 0.5 (1 trimester)
Grade Level: 11, 12
Prerequisites: U.S. History
Wisconsin History is recommended to students thinking of furthering their education in history and/or elementary education. This innovative and progressive course offers opportunities and experiences in interpretive history, seminar 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.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

Technology and Engineering

Graduation Requirements: 9.5 elective credits

Course Flow Chart



Check out the PLTW and Computer Science sections for even more *technology and engineering-related* courses!

*For more information on career and technical education courses, certifications, clubs, and more check out the ETHS CTE website.

APPLIED ENGINEERING IN THE FAB LAB TEC317

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Prerequisites: Design Thinking in the Fab Lab or recommendation

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.

CONSTRUCTION: MATERIALS AND PROCESSES TEC205

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

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.

Certification Opportunities: Career Connections Level 1 certificate

CONSTRUCTION PRODUCTION TEC203-204

Credit: 1.0 (2 trimesters, offered 2nd & 3rd only)

Grade Level: 10, 11, 12

Prerequisites: Construction: Materials and Processes

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.

Certification Opportunities: Career Connections Level 2 Certificate, Sawblade Certificate

DESIGN THINKING IN THE FAB LAB TEC214

Credit: 0.5 (1 trimester)

Grade Level: 10, 11, 12

Prerequisites: How to Make Almost Anything in the Fab Lab or recommendation

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 lives, home, and community.

DRAFTING: CAD1-2D TEC202

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

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 **TEC502**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Drafting: CAD1-2D recommended

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 **TEC103**

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12

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 versus 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. Students will use a variety of technology including: SolidWorks, laser cutter, 3D printer, vinyl cutter, mini-mill, CNC router, CNC plasma table. Students will also use multiple techniques to reverse engineer projects.

INDUSTRIAL ROBOTICS & PROGRAMMING **TEC212**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12

Industrial Robotics and Programming is a study in industrial robotics and programming. Students will learn to program a FANUC industrial robot and earn FANUC CERT Certification. Students will develop frames, learn file manipulation and program the robot to manipulate products, perform different tasks based on I/O conditions, and utilize variables. We will also study robotic power supplies, end of arm tooling and control systems.

Certification Opportunities: SACA C-103 Associate Robot System Operations Certification

INTRODUCTION TO INDUSTRIAL CONTROL SYSTEMS **TEC104**

**This course is a new offering and has not yet been approved for transcripted credit.*

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12

Introduction to Industrial Control Systems introduces students to basic concepts of industrial computer-controlled systems. Students will explore various types of programming using robots and programmable logic controls. Students will participate in lab experiments designed to introduce programming principles, electronic inputs and outputs (analog and digital), and communication between system components including Ethernet protocols. Upon completion of the course, students will be able to explain how the control processes are utilized to automate manufacturing facilities. This course is recommended for students who want to pursue a career in Advanced Manufacturing.

Certification Opportunities: SACA C-101 Associate Basic Operations Certification

METALS: ADVANCED **TEC501**

Credit: 0.5 (1 trimester, offered 2nd & 3rd)
Grade Level: 10, 11, 12
Prerequisites: Metals: Materials and Processes

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.

Certification Opportunities: Snap-on Starrett Precision Measurement Instruments Certification (NC3)

METALS: MATERIALS AND PROCESSES **TEC201**

Credit: 0.5 (1 trimester, offered 1st and 2nd)
Grade Level: 9, 10, 11, 12

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.

Certification Opportunities: Snap-on Starrett Precision Measurement Instruments Certification (NC3)

SMALL POWER EQUIPMENT **TEC210**

Credit: 0.5 (1 trimester)
Grade Level: 9, 10, 11, 12

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.

Certification Opportunities: Snap-on Starrett Precision Measurement Instruments Certification (NC3)

WOODS: FURNITURE AND CABINET CONSTRUCTION **TEC503**

Credit: 0.5 (1 trimester)
Grade Level: 10, 11, 12
Prerequisites: Construction Production

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.

Certification Opportunities: Career Connections Level 2 Certificate, Sawblade Certificate

World Languages

Graduation Requirements: 9.5 elective credits

Course Flow Chart

Additional World Language courses may be offered through online options. Contact your counselor for more information.

Students interested in expanding on and engaging in opportunities for global learning across the curriculum are encouraged to talk to the GEAC Coordinator about participation in the Global Scholars Program.

AP SPANISH LANGUAGE & CULTURE — WDL503-504

Credit: 1.0 (2 trimesters, offered 1st & 2nd)
Grade Level: 12
Prerequisites: Proficiency in previous level of language
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 to 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.

SPANISH I — WDL105-106

Credit: 1.0 (2 trimesters)
Grade Level: 9, 10, 11, 12
Spanish I is recommended for students who seek an introduction to the Spanish language and cultures of the Spanish-speaking world. This course introduces the four basic skill areas (listening, speaking, reading, and writing) through text, audios, films, music, and other media. Emphasis is placed upon pronunciation, vocabulary acquisition, and basic grammatical concepts. Cultural practices, products and perspectives of Spanish-speaking countries are an integral part of every thematic unit.

SPANISH II — WDL107-108

Credit: 1.0 (2 trimesters)
Grade Level: 9, 10, 11, 12
Prerequisites: Proficiency in previous level of language
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. Students continue to develop skills through conversation, vocabulary acquisition, structured 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 — WDL509-510

Credit: 1.0 (2 trimesters)
Grade Level: 10, 11, 12
Prerequisites: Proficiency in previous level of language
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. Students learn advanced oral and written grammar, vocabulary and communication skills through text, audios, class discussions, and other media. Increased familiarity with the culture of Spanish-speaking countries is acquired through readings, films, foods, and music. Classes are conducted in Spanish most of the time. Students will read Spanish novels, complete research and other independent work outside of class

SPANISH IV — WDL511-512

Credit: 1.0 (2 trimesters)
Grade Level:11, 12
Prerequisites: Proficiency in previous level of language
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. Students continue their study of advanced Spanish grammar and communication skills. Emphasis is on acquiring a larger Spanish vocabulary and grammar mastery, so 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 most 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.

Other Electives

Graduation Requirements: 9.5 elective credits

ACT PREP ELE304

This course is not included in the GPA and uses pass/fail grading

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

ACT Prep is designed to utilize the Method Test Prep online platform to assist students in improving their college and career readiness skills as measured through the ACT. The course will focus on English, Math, Reading, Science, Writing and general test preparation. Included in the course will be a pre-assessment of student's skills to determine areas of strength and growth, development of a personalized learning path to address areas of growth, and the completion of 2 full-length practice ACT exams. This course is extremely personalized to focus on each student's greatest areas for growth as determined during weekly activities in which their growth in the many ACT strands is monitored.

ADVANCED YEARBOOK PRODUCTION ELE501,502,503

This course may include summer meetings

Credit: 1.5 (3 trimesters)

Grade Level: 11, 12

Prerequisites: Yearbook Production

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 portion of the courses is based on marketing, the selling of yearbooks, and yearbook advertising.

AVID 9 ELE101, 102, 103

Credit: 1.5 (3 trimesters)

Grade Level: 9

Prerequisites: Application

AVID 9 (Advancement Via Individual Determination) is an academic elective course that prepares students for career and college readiness and success. Each week, students receive instruction utilizing a rigorous curriculum provided by AVID, collaborative study groups, analytical reading and writing, communication skills, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization and reading to support their academic growth. Students will increase awareness of their personal contributions to their learning, as well as their involvement in their school and community. Students will refine study and test-taking skills and note-taking techniques.

AVID 10 ELE204, 205, 206

Students can earn an additional 0.5 credit if taken 3rd trimester

Credit: 1.0 (2 trimesters, 1st & 2nd trimester with optional 3rd)

Grade Level: 10

Prerequisites: AVID 9 or Application

AVID 10 (Advancement Via Individual Determination) is the second course in the AVID elective sequence that prepares students for career and college success. Each week, students receive instruction utilizing a rigorous curriculum provided by AVID, collaborative study groups, analytical reading and writing, communication skills, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization and reading to support their academic growth. In the 10th grade year, students will continue to refine their academic learning plans and goals, increasing awareness of their actions and behaviors, as well as develop an increased ability to self-monitor, self-regulate, and manage time. Students will continue to explore their post-secondary options.

AVID 11 ELE301, 302, 303

Students can earn an additional 0.5 credit if taken 3rd trimester

Credit: 1.0 (2 trimesters, 1st & 2nd trimester with optional 3rd)

Grade Level: 11

Prerequisites: AVID 10 or Application

AVID 11 (Advancement Via Individual Determination) is the first part in a junior/senior seminar course sequence that focuses on writing and critical thinking expected of first and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies and tasks that should be undertaken during the junior year to support students as they apply to four-year universities and confirm their postsecondary plans.

AVID 12 ELE404, 405, 406

Students can earn an additional 0.5 credit if taken 3rd trimester

Credit: 1.0 (2 trimesters, 1st & 2nd trimester with optional 3rd)

Grade Level: 12

Prerequisites: AVID 11 or Application

AVID 12 (Advancement Via Individual Determination) is the second part in a junior/senior seminar course sequence that focuses on writing, inquiry, collaboration, organization and reading to support their academic growth. Students will continue to refine their academic learning plans and goals, create legacy projects including service-learning projects/mentoring, as well as develop an increased ability to self-monitor, self-regulate, and manage time. Students will expand their writing portfolio to include: an argumentative research paper on a social issue and detailed reflections. Lastly, Students will prepare for college through inquiry based collaborative study groups utilizing higher order thinking questioning techniques.

COMMUNICATION TECHNOLOGY ELE207

Students may enroll in this course for 1, 2, or 3 trimesters

Students can earn 0.5 credits per trimester

Credit: 0.5 (1 trimester)

Grade Level: 10, 11, 12

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.

LEARNING CENTER FOR CREDIT ELE104, 105, 106

This course is not included in the GPA and uses pass/fail grading

Students may earn 0.5 credits per trimester (max of 1.0 credits)

Credit: 0.5 (1 trimester)

Grade Level: 9, 10, 11, 12

Prerequisites: Staff recommendation

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.

PEER TUTORING ELE305, 306, 307

This course is not included in the GPA and uses pass/fail grading

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

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.

WIAA OFFICIALS CERTIFICATION ELE308

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Prerequisites: Fit Freshman & Have a Ball with Fitness

WIAA Officials Certification is for students interested in learning more about the mechanics and rules of various sports and activities. This course provides the opportunity for students to become a certified official in basketball, baseball/softball, soccer/football, and one other sport/activity of their choosing. Students may have the opportunity to officiate at lower levels and to pursue employment as an official. WIAA provides materials for students pursuing certification in a WIAA sport. If choosing to become certified in a non-WIAA sport or activity, the student will be responsible for any non-WIAA certification costs.

WORK EXPERIENCE ELE401, 402, 403

This course is not included in the GPA

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Prerequisites: 15.5 credits (tri 1) & 18.5 credits (tri 2)

Work Experience is designed for students who would like the opportunity to pursue a specific career through participation in a work experience program. For one, two, or three trimesters, students may be released from school for one or two 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.

YEARBOOK PRODUCTION ELE201,202,203

Credit: 1.5 (3 trimesters)

Students can earn 0.5 credit per trimester

Grade Level: 9, 10, 11, 12

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. Students will study legal issues, layout and design concepts, copy and caption writing, cropping, proofreading, graphic communication and current technology. Deadline work is imperative.

YOUTH APPRENTICESHIP ELEYA1, YA2, YA3

This course is not included in the GPA

Credit: 0.5 (1 trimester)

Grade Level: 11, 12

Prerequisites: Coursework in specific area and application

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 earn a state competency-based skill certification and possible advanced standing for technical college.

=Laude Honors Course, =Dual Credit/Gateway Credit, =Certification Opportunity

High School Course Template

Grade 9			
	Trimester 1	Trimester 2	Trimester 3
English 9 or Acc. English 9			
Algebra or Other Math			
Biology or Acc. Biology			
Human Geography or AP			
Fit Freshman			
Health			

Grade 10			
	Trimester 1	Trimester 2	Trimester 3
English 10 or Acc. English 10			
Geometry or Other Math			
Physical Science Choice			
U.S. History or AP			
Phy Ed Choice			

Grade 11			
	Trimester 1	Trimester 2	Trimester 3
English 11 or AP			
Algebra 2 or Other Math			
Science Choice			
Civics			
Economics			
Phy Ed Choice			

Grade 12			
	Trimester 1	Trimester 2	Trimester 3
English Choice			