

## **“Achieving Distinction in All We Do”**



# **2023-2024**

## **Program of Studies**

### **A Resource for the Selection of Courses**



**One Team, One District, One Community**

Fort Atkinson High School | Fort Atkinson Middle School  
Barrie Elementary | Luther Elementary | Purdy Elementary | Rockwell Elementary



*The School District of Fort Atkinson Board does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability ("Protected Classes") in any of its student programs and activities.*



## ***SCHOOL DISTRICT OF FORT ATKINSON | FORT ATKINSON HIGH SCHOOL***

### ***MISSION: "Cultivate an inclusive high-performing culture of growth and community"***

Welcome to the Fort Atkinson High School Program of Studies Booklet! This resource will help you make the best selection possible from the variety of courses we have to offer. The School District of Fort Atkinson prides itself on providing unique and enriching learning opportunities designed to meet the needs and interests of every student that walks through our doors. No matter what your next path in life is, we are confident that you will find the classes and experiences you need to succeed now and in the future.

The educational opportunities at Fort Atkinson High School are vast and varied. We offer a broad curriculum which will provide students the proper preparation for work or further education upon graduation. Whichever route you choose, this Program of Studies will help you to plan a meaningful education experience during your high school years.

Your high school experience is one that will have a lasting impact on the rest of your life. The four years you spend at Fort Atkinson High School will significantly shape the rest of your life and we are here to help you make the most of your time with us.

This Program of Studies booklet is meant to be a resource to help guide you through Course Selection. This resource is arranged alphabetically by department and provides an overall view of the different courses offered as well as a description of each individual class. Be sure to pay close attention to our Fort Atkinson High School Graduation Requirements and any prerequisites that may be required of each individual course.

Our staff is happy and willing to assist you in your planning. Please reach out to teachers in the department or to your student's school counselor with any questions you may have.

We look forward to another year ahead of great learning experiences and opportunities for your child to continue to succeed and grow!

Sincerely,  
Mrs. Leigh Ann Scheuerell  
Fort Atkinson High School Principal

*The Board of the School District of Fort Atkinson is committed to providing an equal educational opportunity for all students in the District and does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex, (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability ("Protected Classes") in any of its student programs and activities. The Board is committed to maintaining an education and work environment that is free from discrimination based on sex, including sexual harassment. ([Policy 2260](#), [Policy 2266](#))*

*Inquiries related to Federal and State laws and regulations, including Title II of the Americans with Disabilities Act (as amended), Title VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendment Act of 1972, Section 504 of the Rehabilitation Act of 1973 (as amended) should be directed to the District's Compliance Officers (COs), Mandy Harper, Director of Human Resources; Jason Demerath, Director of Business Services; or Lisa Hollenberger, Director of Special Education and Pupil Services at 920-563-7800, 201 Park St., Fort Atkinson, WI 53538. For information regarding the complaint process please reference [Policy 2260](#), [Policy 2266](#)*

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# GRADUATION REQUIREMENTS

This booklet should help you with your course selections. It covers grades 9-12 and describes the wide selection of courses Fort Atkinson High School has to offer to help you complete your education and prepare for your future college education, apprenticeship, or career plans.

Read each of the course descriptions carefully and plan a program that will match your interests and. Make choices that will help you personally and challenge you to grow and mature.

Keep the following in mind as you select your courses: Students must earn a minimum of 24 credits to graduate from Fort Atkinson High School. Seven credits per year are required as a minimum load, unless permission for an alternative schedule is granted by the counselor and principal.

Among the necessary 24 credits for graduation, the following state minimums must be met:

English	4 credits
Social Studies	3 credits
Science	3 credits
Mathematics*	3 credits
Physical Education	1.5 credits
Health: Relationships & Wellness	0.5 credit
Career Pathways	0.5 credit

*\*Students must successfully complete Algebra I as part of the Mathematics requirement.*

**All graduating students are required to successfully complete all components of the Senior Portfolio process, and under State of Wisconsin statutes, students must pass the Wisconsin Civics Exam.**

The following are grade level course requirements. The remainder of credits may be chosen from among appropriate electives.

## Freshmen:

English 9 or Accelerated English 9	1 Credit
Global Connections 9 or AP Human Geography	1 Credit
Chemistry I & Physics I	1 Credit
Algebra I, Geometry, or Algebra II	1 Credit
Physical Education	½ Credit

## Sophomores:

English 10 or Accelerated English 10	1 Credit
U.S. History or AP U.S. History	1 Credit
Physical Education	½ Credit
Biology I & Earth Science I	1 Credit
Math	1 Credit
Career Pathways	½ Credit

Juniors:

English 11 or Accelerated English 11	1 Credit
Physical Education	½ Credit
Health: Relationships & Wellness	½ Credit
Science of student's choosing	1 Credit
Math	1 Credit

Seniors:

1 Literature Course (Contemporary Literature, Survey of Drama., English Seminar 1 or 2)	½ Credit
1 Writing Course (Creative Writing, Essay Writing, or Contemporary Communications)	½ Credit
OR	
AP English Literature or Intro to College Writing/Reading	1 Credit
Economics or AP Microeconomics or AP Macroeconomics	½ Credit
Government or Government-Honors	½ Credit

## **COURSE SELECTION PROCESS:**

Each February, Fort Atkinson High School students in grades 9-11 along with 8<sup>th</sup> graders are asked to select their course preferences for the next school year. This is an extremely important process which is used to determine staffing levels for the following school year. A master schedule is built based upon the requests students make during the Course Selection Process. It is important to understand that elective classes may not be offered annually based upon the total requests for a particular course. Equally important is the consideration students should give for alternate courses. When the schedules are built, upperclassmen are given priority for elective classes. Therefore, students need to make their selections carefully as changes to schedules prior to the start of school cause a significant disruption to instruction and class size. Again please remember:

- ✓ There is no guarantee that every elective course listed in the "Program of Studies" will be offered.
- ✓ In situations where numbers will not allow all students to be scheduled into an elective class, upperclassmen are given preference in filling those classes.
- ✓ Alternate classes need to be carefully considered and selected as a necessary part of the Course Selection Process.
- ✓ Dual Credit status is subject to change due to changes in staff prior to the start of school.

## **Start College Now (SCN) & Early College Credit Program (ECCP)**

### **Start College Now Program (SCN) - Students enrolling in a Wisconsin technical colleges courses**

1. Allows 11<sup>th</sup> and 12<sup>th</sup> grade students who have Completed 10<sup>th</sup> grade in good academic standing to enroll in one or more nonsectarian courses at a local technical college.
2. Provides that if the course is taken for high school credit, the pupil's district will pay the cost of tuition, if the course is not offered as part of the normal high school curriculum.
3. Provides that post-secondary admittance be contingent on meeting entrance requirements and the availability of space.
4. Requires the school district to determine whether the course satisfies state graduation requirements, and what, if any, high school credits are to be awarded to the pupil. Students may appeal the district's determination to the State Superintendent.
5. **Requires that the Start College Now Application be returned** to the student's counselor at least 5 days prior to the official due date of either **March 1<sup>st</sup>** for participation in the following fall semester, or **October 1<sup>st</sup>** for the spring semester.
6. The student will receive a copy of the Start College Now application back from the School Board with a cover letter indicating approval for credit and tuition payment or not. The student then will need to take further steps to register for the course(s) with the college.
7. If a student receives a failing grade in a course or fails to complete a course, at a college for which the Board has made payment, the student's parent or guardian, or the student if s/he is an adult, may be required by the Board to reimburse the Board the amount paid on the student's behalf.

### **Early College Credit Program (ECCP) Students enrolling in Wisconsin four-year college courses**

1. High school students will be eligible to take courses during the fall, spring, or summer semesters to earn college credit.
2. Eligible students may be permitted to enroll at campuses or online to take one or more courses for which the student may earn high school credit, post-secondary credit, or both.
3. Under ECCP, the costs of the courses are shared among the school, the state, and in some cases the student's family.
4. Return the ECCP Application to your counselor at least 5 days prior to the official due date of either March 1st for participation in the following summer or fall semesters, or October 1st for the spring semester.
5. The student will receive a copy of the ECCP application back from the School Board with a cover letter indicating approval for credit and tuition payment or not. The student then will need to take further steps to register for the course(s) with the college.

# PREPARING FOR COLLEGE

## University of Wisconsin System

The range of courses at today's high school is designed to prepare students with differing interests and abilities for a wide variety of life-after-high-school options. College prep courses are particularly appropriate for providing you with the academic background you need to succeed in a degree program at a college or university.

Your college preparatory program should help you develop competence in at least four primary areas -- English, Mathematics, Social Studies, and Natural Science. College preparatory courses are characterized by the academic challenge they present, requiring time and intellectual effort extending beyond the classroom.

The UW System supports the educational reform efforts occurring in Wisconsin's K-12 schools (i.e., Tech Prep and Youth Apprenticeship) that may result in students taking a number of applied academic courses. As an active partner in these initiatives, the UW System will make every effort to evaluate the course work offered in these and other innovative curricular programs and will continue to work with high schools and technical colleges to make sure these courses meet the standards of university admission.

There are some courses -- even though sometimes identified as English, Mathematics, Social Studies or Natural Science courses -- that do not meet credit requirements for admission to a UW System institution. "Remedial" or "basic" courses do not offer the same kind of subject matter or require the same academic achievement demanded by a "regular" or "advanced" college preparatory course.

Other courses that generally do not fit within the framework of a college preparatory program include those that primarily emphasize helping students to attain or improve learning-related skills. For example, English as a Second Language (ESL) may not be considered as college preparatory English by some campuses.

University and secondary school educators generally agree on which courses are and are not acceptable for college preparatory credit. However, because of varying academic goals and missions, one institution of higher education may accept a course for college preparatory credit, whereas another may not. University admissions officers make acceptance decisions based upon faculty policies and other criteria.

The following information is designed to guide you as you select college preparatory credit courses. The examples given illustrate the types of courses that may be acceptable for college preparatory credit, but they do not cover all possibilities.

If you have questions about the acceptability of a specific high school course, contact the Admissions Office or the institution you plan to attend, or contact UW HELP, the UW System advising service at (800) 442-6459 or [uwhelp@uwsa.edu](mailto:uwhelp@uwsa.edu) or visit their website at [www.uwhelp.wisconsin.edu](http://www.uwhelp.wisconsin.edu)

# COLLEGE PREPARATORY CREDIT REQUIREMENTS

All UW System institutions require a **minimum** of 17 high school credits distributed as follows:

## I. Core College Preparatory Credits

English	4 credits
Mathematics (Algebra I, Geometry, Algebra II)	3+ credits
Social Science	3 credits
Natural Science (Lab Sciences)	3 credits

**TOTAL** **13 credits**

## II. Elective Credits

**4 credits**

Elective credits are chosen from the above core college preparatory areas, foreign language, fine arts, computer science and other academic areas. A **minimum** of two credits in a single foreign language are required for admission to UW-Madison. UW-Platteville and UW-Milwaukee require 2 years of Foreign Language for an **exit requirement** from their institutions. Some UW System institutions may accept vocational courses for a portion of these four credits.

For more information, refer to the admissions requirements for each individual university as on their websites or visit the UW HELP website at [uwhelp.wisconsin.edu/admission-guidelines/freshman/](http://uwhelp.wisconsin.edu/admission-guidelines/freshman/)

## Courses Not Considered Core College Preparatory Credits

### English

Courses not accepted as core college preparatory credits tend to be those that emphasize applied skills, performance, or technical production. (Newspaper, Yearbook, Contemporary Communications are most likely not acceptable).

### Math

In most cases, courses are not accepted as core college preparatory credits in Math if they: 1) are taught prior to first-year Algebra, 2) do not have Algebra as a prerequisite, or 3) are computer science or statistics related courses.

### Social Science

All of the Social Studies Department's courses are considered college preparatory.

### Natural Science

Any courses which are more applied in nature should be reviewed by an admissions officer for acceptability. (Animal Science, Electronics, Conceptual Physics, and Medical Occupations are examples of applied courses and are not accepted as college prep course.

# ADVANCED PLACEMENT PROGRAM

## What is Advanced Placement?

The Advanced Placement (AP) Program is a cooperative educational endeavor between secondary schools and colleges and universities. It allows high school students to experience college-level academic learning through AP courses, and gives them the opportunity to show that they have mastered the advanced material by taking AP exams. Advanced Placement Exams are given on national test dates in Fort Atkinson during the month of May. Exams are a combination of multiple-choice and essay questions. Every examination receives an overall grade on a five-point scale: 5 (extremely well qualified); 4 (well qualified); 3 (qualified); 2 (possibly qualified); and 1 (no recommendation). Students can receive credit, advanced class placement, or both, from thousands of colleges and universities that participate in the Advanced Placement Program.

AP courses **make substantial academic demands on students**. Most courses are a full year in length. Students are required to do considerable outside reading and other assignments and to demonstrate the analytical skills and writing abilities expected of first-year students in a strong college program. This experience helps them develop the intellectual skills and self-discipline they will need in college. F.A.H.S. expects all AP students to take the AP exam as part of the course requirement (NOTE: Students are responsible for the exam fee). *Generally, students should have a grade history no lower than a B+ in related content to be successful in AP classes.*

## What are the benefits of Advanced Placement?

Selection of advanced placement courses will benefit students in the following ways:

- ❖ Provide college credits for courses and examinations successfully taken in high school.
- ❖ Exempt them from some introductory college courses, thus permitting students to move more quickly into advanced college classes.
- ❖ Motivate them to attempt more challenging courses in both high school and college.
- ❖ Develop, in a high school environment, the study skills and habits they will need in college.
- ❖ Bolster their confidence that they can meet college requirements.
- ❖ Reduce college costs and time to obtain a degree.
- ❖ Colleges view advanced placement experience as a sign of potential college success for admissions purposes.

## How difficult are AP courses?

AP courses are introductory college courses, so they are not easy, but neither are they impossibly difficult. AP courses require more time and work, but in doing so you gain in many ways. Generally a Junior would take one or two AP courses; a Senior would enroll in one, two, or three AP courses.

## If I don't get a good grade on an AP Exam, will it hurt my chance for college admission?

Generally, it is to your advantage to submit all evidence of your college-level work because:

- ❖ College officials evaluate courses based on the quality of the course as well as the grade received.
- ❖ If you report AP grades before your Senior year, you will be informing colleges that you are serious about your studies.
- ❖ If you take an examination as a Senior, colleges will not receive your grade before July, well after you have been admitted.
- ❖ You can control the reporting of your AP Examination grades. When taking the exam, you indicate on your answer sheet the name of the college you wish to receive your grades. Later you can write to the AP Program and request your grades be sent to the colleges of your choice.

### **Can I take an AP exam without taking an AP course?**

Taking an AP course is the best preparation for an AP exam. However, some students who have a strong background in certain areas may be able to perform quite well on an AP exam by preparing on their own.

### **How much credit can I expect to get from an AP course and exam?**

You will receive high school credit for taking an AP course. Each college decides which AP exam grades it will accept for credit or for advanced placement. Most colleges accept grades of 3 and above awarding 3 or more college credits. Information about acceptance of AP credits at University of Wisconsin System schools is available on the UW HELP website at [uwhelp.wisconsin.edu/prep-for-college/credits/](http://uwhelp.wisconsin.edu/prep-for-college/credits/)

### **How do I get involved in AP?**

An AP teacher or your school counselor can help you determine which AP courses may be good for you. Plan ahead in the ninth or tenth grade so you will have the appropriate background courses for the AP classes offered during your junior or senior year. For further information contact the AP Coordinator at 920-568-4478.

# DUAL CREDIT PROGRAM

## What is dual credit?

Dual Credit courses are college-equivalent courses that are taken in high school. Some Fort Atkinson High School departments have Dual Credit Agreements with Madison College and Waukesha County Technical College (WCTC). These agreements entitle you to earn college credit while in high school AT NO COST TO YOU. This means that while you are in high school, you can begin a college program and earn college credits by taking dual credit courses offered at Fort Atkinson High School. These courses are designated as “DC” (dual credit) in this Program of Studies and on transcripts.

## What are the benefits to you as a student?

- You do not have to pay tuition for articulated courses.
- Instead of wasting time re-learning what you already know, you may take more advanced courses.
- You may choose to take additional electives to supplement your degree.
- You may have a time-shortened program at the college.
- Some of your Madison College/WCTC program courses may transfer to four-year institutions both in and outside of the State of Wisconsin. Check with your intended college for the possibility of transfer credit to a particular institution.
- You can develop marketable skills in a more condensed period of time.

## What do YOU need to do?

- Register with Madison College/WCTC in the fall to receive the dual credit.
- Achieve a course grade of “C” or better.
- During registration at the technical college, refer to your high school transcript which will have the “DC” designation after the course title.

## Who can answer any questions I may have about articulation?

Seek information from the teachers who teach dual credit courses or see your school counselor.

## Which high school courses are currently articulated?

*\*Course Dual Credit status is subject to change due to changes in staff prior to the start of school.*

Department	High School Course	MATC or WCTC Course
Business Information & Technology	IT Essentials II - DC	Madison College
	Microsoft Office Essentials II - DC	Madison College
	Marketing II - DC	Madison College
	Video & Digital Media Production - DC	Madison College
	Social Media Marketing - DC	Madison College
English	Intro. to College Writing & College Reading Strategies - DC	Madison College
Mathematics	Math Reasoning - DC	Madison College
	Intermediate Algebra - DC	Madison College
Family & Consumer Education	Introduction to Foods - DC	WCTC
	ProStart I & II - DC	WCTC
	Baking, Pastries, & Chocolatiering - DC	WCTC
Technology Education	Advanced Machine Tool - DC	Madison College
	Advanced Welding - DC	Madison College

The State of Wisconsin requires all students in grades 8-12 to have an Academic Career Plan (ACP). This plan guides students to choose courses that prepare them for the training and education that they will need after high school to pursue their career goal. The culmination of this ACP process during high school is the Senior Portfolio. The following is the state resource that can provide valuable information to help students in their decision-making and academic planning:

## ***XELLO***

***“EVERY STUDENT READY FOR THE FUTURE”***

***This career search tool can help you find information on the following subjects:***

### **Education**

Find information on schools, programs & financial aid. Set your educational goals. Find schools that match your needs. Organize with your class planner.

### **Occupations**

Find details on occupations. Find jobs that match your interests, skills, major, budget or experience. Set your occupational goals.

### **Assessments**

Take career assessments. Enter inventory or tests scores  
See occupations that match your results.

### **Job Seeking**

See details on jobs & employers. Learn how to write a resume and cover letter.  
Learn how to fill out a job application.

### **Budgeting**

Budget your lifestyle. Research occupations that fit your budget.

### **News & Views**

Get the latest on jobs, industries, education, and career planning.

# **YOUTH APPRENTICESHIP PROGRAM**

The Department of Workforce Develop (DWD) Youth Apprenticeship (YA) program provides Fort Atkinson High School juniors and seniors with a school supervised work experience that provides students with specific occupational skills, valuable employability skills, and a general knowledge of the world of work. Youth Apprenticeship students earn a State Skills Certificate upon graduation. Students who successfully complete the program have the option of entering into careers in the workforce, applying for a registered adult apprenticeship, joining the military or enrolling into a technical or university program.

## **Benefits of the Youth Apprenticeship**

- Students earn pay while they learn!
- Students earn a state-issued skills certificate from the Department of Workforce Development!
- Work with skilled on-the-job mentors and a teacher mentor from FAHS!
- Increased self-confidence in abilities and strengths!
- Engages students in active problem solving!
- Exposure to future career interests. Students learn what they enjoy doing!
- Earn high school credit!
- Workplace skill development and on-the-job training!

## **Steps to Enroll**

- Select an area of interest.& enroll in related high school courses.
- Interview for and secure a work-based training position & complete a training agreement.
- Achieve the related training and competencies in that area.

## Youth Apprenticeship programs are offered in the following areas:

Occupational Area	One Year Programs	Two Year Programs
<b>Agriculture, Food &amp; Natural Resources</b>	Animal Fundamentals, Arborist, Plant Fundamentals, Basic Water Resources, Agriculture Mechanic Technician	Animal/Herd, Dairy Grazier, Small Animal/Veterinarian Technician, Arborist, Crops, Floral/Greenhouse
<b>Architecture and Construction</b>	Carpentry, Electrical, Heavy Equipment, Masonry/Concrete, Mechanical/HVAC, Plumber, Architectural Drafting & Planning, Gas Distribution, Utilities	Carpentry, Electrical, Masonry/Concrete, Architectural Drafting & Planning
<b>Arts, A/V Technology &amp; Communications</b>	Graphic Design, Pre-Press Operator, Press and Post-Press Operator, Media Broadcast Technician	Media Broadcast Technician
<b>Information Technology</b>	IT Essentials, IT Broadband Technician	IT Network and Security, IT Software & Application Development
<b>Finance</b>	Accounting, Banking, Insurance	Accounting, Banking
<b>Health Science</b>	Dental Assistant, Medical Assistant, Nursing Assistant, Pharmacy Tech, Resident Aide, Medical Office, Dietary Aide, Medical Lab Assistant, Medical Imaging, Optical Assistant, Phlebotomist, Physical Therapy Aide	Dental Assistant, Nursing Assistant, Resident Aide
<b>Hospitality and Tourism</b>	Food & Beverage Services, Lodging, Meeting & Events	
<b>Manufacturing</b>	Assembly & Packaging, Machining, Manufacturing Processes, Welding, Production Operations, Industrial Equipment	Machining, Manufacturing, Welding, Industrial Equipment
<b>Marketing</b>	Marketing Communications, Merchandising, Professional Sales	Marketing Management/Leadership, Marketing Research/Competitive Intelligence
<b>Science, Technology, Engineering &amp; Mathematics (STEM)</b>	Bioscience Lab Foundations, Engineering Drafting	Bioscience Lab Applications, Civil Engineering, Mechanical/Electrical Engineering
<b>Transportation, Distribution, and Logistics</b>	Aviation Maintenance, Airport Operations Management, Supply Chain Assistant, Automotive Technician, Collision Repair, Diesel Tech	Airframe & Powerplant, Avionic Technician, Distribution and Transportation, Inventory Management, Planning & Purchasing, Storage & Warehousing, Automotive Tech, Collision Repair, Diesel Tech

# AGRICULTURE

## MISSION STATEMENT Agriculture Department School District of Fort Atkinson

Agriculture is our world's most vital industry. The demand for production, processing, and distribution of food and fiber products is a never ending need. Agriculture Education will work with each student to develop an awareness of the importance of agriculture. Students will be exposed to a wide variety of career opportunities and life long skills. The agriculture education program will be continuous and encompass the areas of agriculture exploration, applied agriculture science, agriculture business, and agriculture production. Students will develop competencies needed to successfully gain employment in these areas.

In addition, students may elect to further develop their leadership skills through involvement in FFA. The National FFA provides members the opportunity to apply classroom knowledge through problem solving, communicating, teamwork, and community development.

### Mission Statement -- National FFA Organization

The FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education.

Course Name	Credit	9	10	11	12	Prerequisite
Introduction to Agriculture	1	X	X			None
Animal Science	1		X	X	X	None
Plant Science	1		X	X	X	None
Agriculture Business	½			X	X	None
Wisconsin Agriculture	½			X	X	None
Food Science	½			X	X	None
Greenhouse Management	½			X	X	Plant Science
Landscape Design	½			X	X	Plant Science
Veterinarian Science	½			X	X	Animal Science
Production Agriculture Youth Apprenticeship	½ - 1			X	X	Concurrent Semester Ag. Course/Instructor's Signature

\*In order to provide a rich and meaningful experience in Agriculture, the above designated courses will be taking multiple trips to offsite locations. This means that students will be transporting themselves to those locations. If a student does not have transportation it may be provided. Permission forms and appropriate documentation will be provided when classes begin. Courses include: Landscape Design, Vet Science, Agriculture Production and Agriculture Business.

### **INTRODUCTION TO AGRICULTURE**

Grade Level: 9, 10

Credit: 1

Length: Full Year

Prerequisite: None

The course will feature units in Agriculture Careers, Leadership, Animal Science, Wildlife Ecology, Agronomy, Horticulture, Agricultural Safety and Agriculture Business. Special time will be devoted to leadership training in Parliamentary Procedure, communication and community service. "Hands-on" activities will highlight each unit with the use of the Animal Lab, Plant Lab, Greenhouse, Computer Lab, Outdoor Lab, and Field Trips.

### **ANIMAL SCIENCE** (\*Science Equivalency)

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Students will become familiar with the overall care and management of domesticated animals. This course will include units in horses, dairy and beef cattle, sheep, goats, rabbits, aquaculture, poultry, dogs, cats, animal welfare, current events, reproduction/genetics, animal health, and feeding/nutrition. Individual and group study will be highlighted by lab activities in the Animal Lab and/or field trips.

### **PLANT SCIENCE** (\*Science Equivalency)

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

This course will cover the basic skills needed by a student interested in a career or hobby related to plant science. Course work features units in careers, plant growth and reproduction, soils, greenhouse management, plant diseases & pest management, flowers, fruits, vegetables, and landscape ornamentals. A variety of "hands on" activities including field trips, guest speakers, indoor and outdoor plant care, and greenhouse production.

### **AGRICULTURE BUSINESS**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This course is designed for students with an interest in agricultural business and integrating business skills. Units will include: career exploration and planning, identifying agricultural job sources, completing job applications, resume writing, interviewing and public speaking skills, healthful living, citizenship, investments, insurance, taxes, leadership skills, computer skills, entrepreneurial skills, budgeting, product marketing, commodity marketing, record keeping, agricultural economics, and production agriculture.

### **WISCONSIN AGRICULTURE**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Wisconsin Agriculture provides an in-depth look at the agriculture industry specific to Wisconsin. Students will learn about production methods, storage, processing, and marketing specific to Wisconsin crops and animals such as cranberries, ginseng, maple syrup, pumpkins, apples, cereal grains, milk, dairy cattle, poultry, horses, and livestock. Agri-Tourism and advocacy will be major themes within this course.

### **FOOD SCIENCE**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

The course will apply the principles of basic sciences, such as biology, chemistry, engineering, physics and psychology to the problems of food production. Students will examine basic aspects of food manufacturing such as: consumer acceptability, consumer concerns, food composition, quality factors of foods, food

preservation, product analysis, processing methods, economics, nutritional quality, labeling, regulations, and safety. Students will participate in FFA supervised agricultural experience project, career development activities, guest speakers, processing activities, preservation labs, product development projects, educational field trips, and research activities.

### **GREENHOUSE MANAGEMENT**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Plant Science

This course will include the advanced study of flowers, fruits, vegetables, and landscape ornamentals. Topics will include: plant selection and identification, plant diseases, container grown plants, growth stimulants and regulators, plant propagation, integrated pest management, maintaining landscape plants, and careers in horticulture. Students enrolled in this course will manage the greenhouse for the semester.

### **LANDSCAPE DESIGN**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Plant Science

The advanced course provides a background in horticulture, nursery and planting standards, and in the creative process of design. Topics will include: plant selection and identification, landscape design principles, landscape design (CAD), hardscaping, irrigation, masonry, fences, equipment usage and maintenance, landscape surveying and calculations, landscape contracts, contractors and documents, and installing and maintaining landscape plants.

### **VETERINARIAN SCIENCE**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Animal Science

\*Science Equivalency – (counts towards 3<sup>rd</sup> credit of science)

Veterinarian Science is designed to give animal science students an advanced working knowledge of the large animal, laboratory animal, veterinary assistant, and pet industries. Students will be instructed in the care, maintenance, and training of all common domesticated animals. Students will be prepared for entry level positions in the animal industry, pet industry, animal breeding industry, livestock industry, and veterinary assistant training. Veterinarian Science will also give students a strong life science background with emphasis in anatomy, physiology, diseases, genetics, and nutrition to help prepare students for entry into college and technical school.

### **PRODUCTION AGRICULTURE YOUTH APPRENTICESHIP**

Grade Level: 11, 12

Credit: ½ – 1

Length: 1 or 2 Semesters

Prerequisite: Current or former Agriculture course and instructor permission. **Concurrent semester enrollment in Agriculture Business, Agriculture Production, Food Science, Horticulture, Landscape Design, or Veterinarian Science is required.** Contact instructor to obtain a Program Application.

This is the on-the-job component for students. Students are placed or find their own job opportunities which enable them to work part-time in an agricultural job setting. Students earn credit based upon the number of hours worked and are paid by the employer. Their school schedules will be reviewed to accommodate 10-20 hours of work per week. Enrollment in this job experience is limited by the number of job sites available. A written agreement outlining work experience objectives is executed by the school, employer, student, parents, and supervising teacher involved.

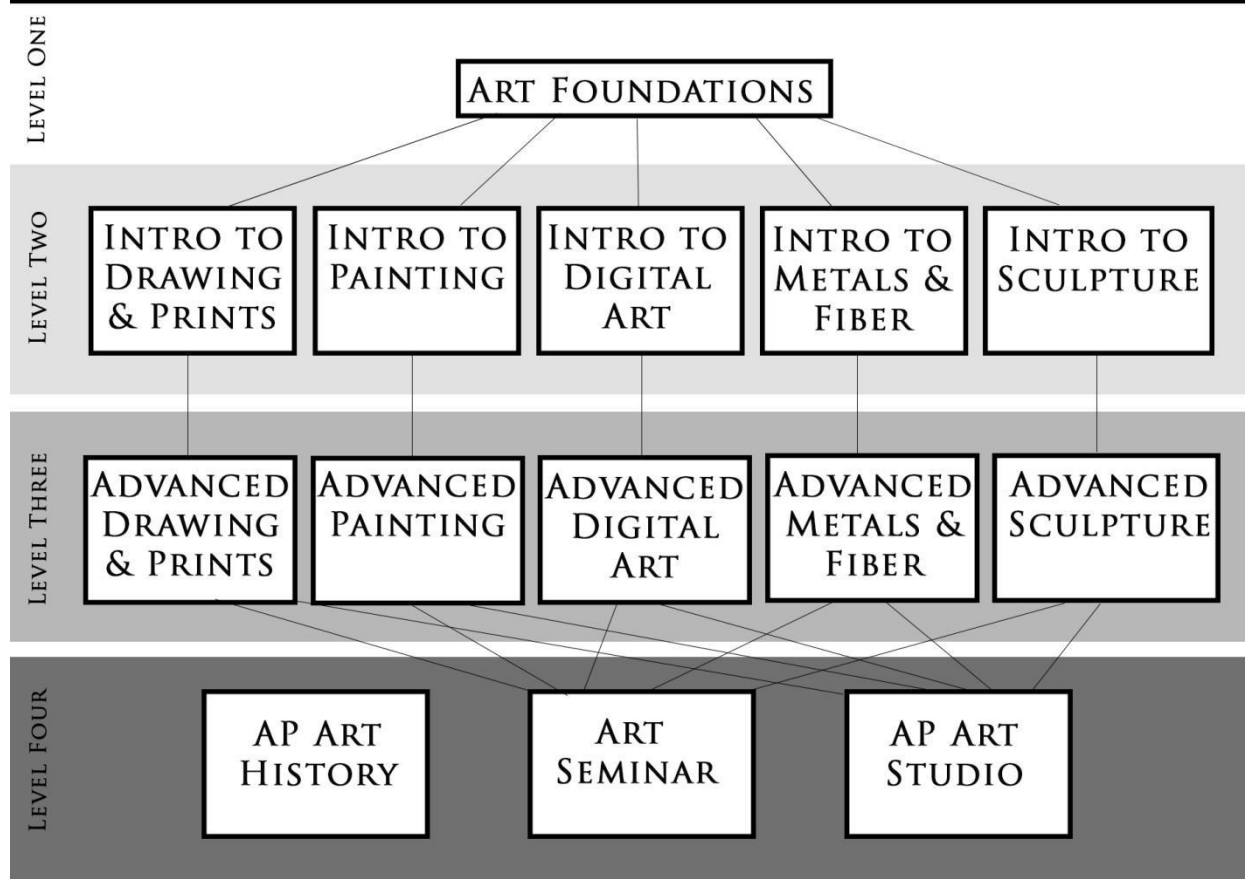


# Fort Atkinson Art Department

Proposed Course Offerings:	Credit					Prerequisite
Art Foundations*	½	X	X	X	X	None
Intro to Drawing & Printmaking*	½	X	X	X	X	Art Foundations or above*
Intro to Painting*	½	X	X	X	X	Art Foundations or above*
Intro to Sculpture	½	X	X	X	X	Art Foundations or above*
Intro to Art Metals and Fiber*	½	X	X	X	X	Art Foundations or above*
Intro to Digital Arts & Photography	½	X	X	X	X	Art Foundations or above*
Advanced Drawing & Printmaking	½	X	X	X	X	Intro to Drawing & Printmaking
Advanced Painting*	½	X	X	X	X	Intro to Painting
Advanced Sculpture	½	X	X	X	X	Intro to Sculpture
Advanced Art Metals and Fiber*	½	X	X	X	X	Intro to Art Metals & Fiber
Advanced Digital Arts & Photography	½	X	X	X	X	Intro to Digital Arts
AP Art Studio	1				X	Any art class & teacher consent
Art Seminar	1				X	Any Art Class & teacher consent
AP Art History	1		X	X	X	NONE

\* Course has a fee for materials. However, financial assistance is available for students who are not able to pay this fee.

# FAHS ART DEPARTMENT COURSE FLOW CHART



## **ART FOUNDATIONS**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

**Materials fee: \$15**

Do you wish you had more time in your day to explore your creative side? Art Foundations provides an overview of several artistic disciplines both two and three-dimensional.

Students of all levels will explore drawing, painting, sculpture, metals, and digital art. Students will be encouraged to develop work that promotes personal expression, creativity, craftsmanship, techniques. This class focuses on establishing a strong understanding of the elements of art and principles of design while also teaching students to become careful observers of the world around them. Projects in this class are designed to promote

higher-level thinking through problem solving, while enjoying a hands-on relaxed environment.

## **INTRO TO DRAWING AND PRINTMAKING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Art Foundations

**Materials fee: \$25**

Intro to Drawing and Printmaking focuses on strengthening knowledge, understanding and use of a variety of drawing techniques while increasing observational skills. Students will learn to build their drawing skills while increasing their ability to express themselves through their artwork. Students in this class will build strong foundational drawing skills and techniques which are necessary and useful tool for all other media. We will experiment with a variety of media and techniques such as

charcoal, graphite, ink, and colored pencil, through a series of life drawing, portraits, surrealistic pieces and abstract art. This is a course that is well suited to students learning to become better draftsman, designers and digital artists. The ability to draw is an essential skill for architects, engineers, graphic designers as well as anyone working within the large fields of visual arts.

### **ADVANCED DRAWING AND PRINTMAKING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Intro to Drawing & Printmaking

Students will build upon the skills and techniques gained in Intro to Drawing and Printmaking. We will begin working with a variety of printmaking techniques, pen and ink drawing and mixed media work. We focus on being expressive in our drawings while experimenting with media. Students will be given the opportunity to engage in more independent and open projects and use their drawing skills to express themselves as individuals. The goal of this class is to help students become experts in drawing and printmaking techniques. Students leave this class as creative problem solvers with the ability to use their drawing skills in imaginative and expressive ways.

### **INTRO TO PAINTING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Art Foundations

**Materials fee: \$25**

A great class for students who enjoy dabbling and want to learn more about this interesting and varied subject! Introduction to Painting allows students to tour the world of art history as we study the masterpieces of Picasso, Van Gogh, Warhol, and many more. Students will learn to identify major movements in art, while experimenting with both realism and abstraction. Students will be introduced to a variety of media including acrylic, oil, watercolor, as well as digital painting and graphic design. This course invites students to make their mark!

### **ADVANCED PAINTING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Intro to Painting

**Materials fee: \$25**

Students in this class will learn advanced techniques in watercolor, oil, acrylic, and digital painting. Students will also have the opportunity to work on a larger scale and develop their own unique style. Students will be given the opportunity to engage in more independent projects and use their painting skills to express themselves as individuals. Students in this class will walk away with greater confidence in their skills, as well as deeper understanding of the history and traditions of painting.

### **INTRO TO SCULPTURE**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Art Foundations

In Intro to Sculpture we spend one quarter working with clay and one quarter working with other sculptural techniques. During the first quarter of class we will be using a variety of hand-building techniques to create ceramic sculptures, vessels and tea pots. During the second quarter we will use a variety of different media and techniques; found object, plaster, and stained glass mosaic. The goal of this course is to familiarize the student with the wide range of materials and techniques one can use to make three dimensional art. There will be a focus on technique within each sculptural media. This is a great course for students that enjoy working with their hands and is a great companion for construction, wood-working and metals courses. If you plan on going into construction, furniture design, engineering, architecture, interior design, dentistry, and other fields in which one creates three dimensional objects this class is a great way to build dexterity, skill and knowledge.

### **ADVANCED SCULPTURE**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Intro to Sculpture

In this course students will expand on the basic knowledge gained in Intro to Sculpture by studying advanced techniques in clay, glass, and other sculptural media. Students will create larger scale artwork that is more conceptual in nature. This course also allows for students to independently produce artwork that fits their individual aesthetics. The first quarter of the class will focus on clay sculpture and wheel throwing. In the second quarter we will learn how to design and build a stained glass piece and create an installation.

### **INTRO TO ART METALS AND FIBERS**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Art Foundations

**Materials fee: \$15**

In Art Metals students will be introduced to a variety of jewelry making techniques (sawing, piercing, soldering, forming, etc) to create jewelry or wearable metal objects. We will also learn about shibori and tie-dye techniques in addition to making conceptual fashions from non-traditional materials. You will walk out of this class having made a pair of earrings, a bracelet, a necklace, a ring, at least one t-shirt, and a piece of sculptural fashion. The quality of work produced in this class is professional level and many students have sold their artwork from our art shows and even to staff at school! Jewelry design is a growing area of the arts rooted in ancient times. This is a great companion course to Metals in the Tech Ed program, building on many of the same concepts and techniques, yet having a focus on design and creativity. This a great course for students exploring a field in design (interior design, furniture and cabinet making, welding and large scale metal work, etc).

### **ADVANCED ART METALS AND FIBERS**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Intro to Art Metals and Fibers

**Materials fee: \$15**

Students in advanced art metals will learn more advanced techniques in the studies of textiles (batik and felting). Advanced techniques in metal smithing will also be explored (enameling, forging, and advanced construction). Students will also be able to expand on their experiences with conceptual fashion. Students will leave this class with all the skills necessary to jump directly into a college level jewelry program.

### **INTRO TO DIGITAL ART AND PHOTOGRAPHY**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester;

Prerequisite: Art Foundations

Are you considering a career in visual communication? This class is designed for the student who enjoys taking photos, experimenting with technology, and may be considering a career in the design industry. Major themes studied will be graphic design, animation, commercial art, photography techniques, and photo-manipulation. Students in this class will explore career pathways of the Digital Art industry by participating in real-world assignments and contests. Students will learn how to navigate Photoshop, how to work independently to meet client's needs, as well as how to collaborate with a team to achieve an artistic vision.

### **ADVANCED DIGITAL ART AND PHOTOGRAPHY**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Intro to Digital Arts

This class is for students who would like to extend their skills in photography, technology, and digital

art. Students in this class will continue to explore career pathways of the Digital Arts Industry such as graphic design, animation, and visual communication. Students will be challenged to “think outside the box” to solve high level design problems. Students will work locally with clients in our school and community, as well as participating in state and national design contests. While completing real-world tasks, students are also invited to explore their creative side and express their ideas via photos, graphics, and video!

### **AP ART STUDIO**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Senior with at least one art class and art teacher recommendation

The AP Studio portfolios are designed for students who are seriously interested in the practical experience of art and the opportunity to create art in an independent studio environment. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. AP Studio Art sets a national standard for performance in the visual arts that contribute to the significant role the arts play in academic environments. This College Board program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. In essence, the AP Program is a cooperative endeavor that helps high school students complete college-level courses and permits colleges to evaluate, acknowledge and encourage that accomplishment through the granting of appropriate credit and placement.

Students in this class work to create a vast portfolio of high quality and thoughtful art. Students interested in this class should discuss their placement in it with Mrs. Szabo prior to signing up

and should have a broad base of art class experience in order to be successful.

### **ART SEMINAR**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Senior with at least one art class and art teacher consent

This class is structured for senior art students that want the independence to choose their media, subject, techniques and ideas for art. This is an independent project based course that closely mirrors AP Art but does not require the rigor of the portfolio or the opportunity to earn AP credit. For students with a more advanced understanding of art that really want to explore their own art ideas.

### **AP ART HISTORY**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Dive into the world of Art History while earning credit towards your post-secondary education. AP Art History is designed to provide the same benefits of an introductory college course to high school students. In the course, students will examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn to look and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. Students will learn how and why works of art communicate visual meaning. This course is a great choice for students who are interested in art, history, or just looking to fulfill a humanities credit that most colleges require for graduation.

# BUSINESS & INFORMATION TECHNOLOGY



Course Name	Credit	9	10	11	12	Prerequisite
Microsoft Office Essentials I	½	X	X	X	X	None
Microsoft Office Essentials II - DC	½	X	X	X	X	Microsoft Essentials I
Marketing Essentials I	½	X	X	X	X	None
Marketing Essentials II - DC	½	X	X	X	X	Marketing Essentials I
Social Media Marketing - DC	½	X	X	X	X	Marketing Ess I
MultiMedia & Web Page Design	½	X	X	X	X	None
Video & Digital Media Production - DC	½	X	X	X	X	Multimedia & Web Page Design I
Assessment Strategies & Study Skills	½		X	X	X	None
Personal Finance	½	X	X	X	X	None
Business Entrepreneurship & Organization	½	X	X	X	X	None
IT Essentials I	½			X	X	None
IT Essentials II - DC	½			X	X	IT Essentials I
Accounting I	1		X	X	X	None
Accounting II	1			X	X	Accounting I & Instructor Approval
Business Law	½			X	X	None
Various Business Co-op/Youth Apprenticeships	1			X	X	2 semesters of BIT classes

### **MICROSOFT OFFICE ESSENTIALS I**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

The programs of Microsoft Office (Word, Excel, Access, Power Point, and Publisher) are considered an industry standard when it comes to creating documents and presentations. In this course you will be introduced to the basics of Microsoft Office and have an opportunity to create, edit, and modify documents and presentations that can be used in personal, work and school-related activities.

### **MICROSOFT OFFICE ESSENTIALS II** **(Dual Credit)**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Microsoft Office Essentials I



This course will build off of what is learned in the Microsoft Office Essentials I course. Students will learn more in-depth concepts and study additional tasks that can be accomplished with the Microsoft Office Suite. Students will also look at real-world applications for the Microsoft Office Programs, learn concepts and create projects that will be useful after high school. Upon successful completion of Microsoft Essentials I and Microsoft Essentials II over the course of 9th through 12th grade, Madison College offers dual credit. Students who take this course during their freshman year and pass with a 76% or higher are eligible to return during their sophomore, junior or senior year to take the dual-credit test before the end of the first semester. Arrangements for this must be made with the instructor before the end of September.

### **MARKETING ESSENTIALS I**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Do you ever wonder why consumers choose certain products when there are often dozens of products that do the exact same thing? It is called marketing,

it's the process of studying consumer behaviors and beliefs to develop and promote products that consumers will want to purchase. You will learn about the four functions of marketing, which are price, product, place, and promotion. You will gain not only an understanding of the functions, but get several chances to actually execute your knowledge and understanding of them through hands-on projects as well as working in the school store.

### **MARKETING ESSENTIALS II (Dual Credit)**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Marketing I



Students will gain a deeper understanding of the concepts learned in Marketing I and get the opportunity to learn about vital concepts like market research, packaging, branding, visual merchandising, sales, advertising, e-marketing, how social media has impacted marketing, and much more. Upon successful completion of Marketing Essentials I and Marketing Essentials II over the course of 10th through 12th grade, Madison College offers dual credit.

**Dual Credit** after successful completion of Marketing Essentials I & II.

### **SOCIAL MEDIA MARKETING (Dual Credit)**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Marketing I



Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts. This course includes a dual credit opportunity with Madison College.

### **MULTIMEDIA & WEB PAGE DESIGN**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Are you prepared? Today people like to communicate with images and sound via web pages, animations/movies, cell phones, music and other digital media. A variety of industry accepted programs are used in these courses to teach the design concepts for building effective web pages and movies.

### **VIDEO & DIGITAL MEDIA PRODUCTION**

**(Dual Credit)**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Multimedia & Web Design I



Are you prepared? Today people like to communicate with images and sound via web pages, animations/movies, cell phones, music and other digital media. A variety of industry accepted programs are used in these courses to teach the design concepts for building effective web pages and movies. The Level II course will expand on the designing and building of effective web sites and communication media.

### **PERSONAL FINANCE**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Learning to manage your money is as important as earning it. Financial literacy among teens has been recognized as a necessity. Personal Finance helps students become “financially fit” by studying the areas of Financial Aid, Budgeting, Career Research, Taxes, Insurance, Housing, Investing, Saving and Banking. The goal of this course is for students to develop skills to become wiser consumers to get the most out of their hard earned money.

Learn strategies and gain the skills necessary to make your money work for you!

### **ASSESSMENT STRATEGIES & STUDY SKILLS**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisites: None

This course is designed to support students in developing key skills and understandings to perform strongly on classroom and standardized assessments, including the ACT (American College Test), as well as to develop routine strategies to assist with organization, maximizing learning and project management. This is an excellent offering for students seeking to better their ability to show what they have learned on tests, improve grades in their classes, as well as enhance their standardized test scores for technical school program entry, college admission and scholarships.

### **BUSINESS ENTREPRENEURSHIP & ORGANIZATION**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Entrepreneurship is the art of owning and operating your own business. In this class, students will assess their entrepreneurial attitudes and ability, learn how to assess business competition, create a business, and experience all aspects of planning a new venture.

### **IT ESSENTIALS I**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

IT Essentials I is intended for students who want to gain working knowledge of how computers work, how to assemble computers, and how to troubleshoot hardware and software issues and explore or pursue careers in Information Technology. This class focuses on PC hardware and software.

**IT ESSENTIALS II (Dual Credit)**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: IT Essentials I



IT Essentials II continues the learning begun in IT Essentials I. Connecting to the internet and sharing resources in a network environment are added as well as communication skills and security in the IT field.

**Dual Credit** after successful completion of IT Essentials I & II.

**ACCOUNTING I**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Accounting teaches the basics of keeping financial records. This course is strongly recommended for any student planning to pursue a college business degree, as well as students interested in management or business ownership. Self-employed business people, as well as various types of employees, all need a basic understanding of accounting principles.

**ACCOUNTING II**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Accounting I &amp; Instructor Approval

Prepare yourself for accounting at the postsecondary level and a career in this prosperous field. This career oriented course will help prepare those students planning to major in accounting, marketing, management, and other areas of business administration in college or technical school.

**BUSINESS LAW**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Business Law is a course for everyone. Have you ever lent something to someone (money, cd's, car, etc.) and then not gotten it back? What can you do if a salesperson talked you into a poor contract? If you are a minor, what are your rights if an employer asks you to work in violation of the Child Labor laws? Learn answers to these and other legal questions in Business Law! Topics covered: lawsuits, criminal law, contract law, employment law, rights and responsibilities of adults compared to minors.

**CERTIFIED BUSINESS CO-OP**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of two semesters of BIT classes—excluding Keyboarding AND Concurrent enrollment in Business Procedures

Earn credit, earn money, and gain experience all at the same time. This program will attempt to place students in just about any business that provides the student a variety of learning experiences in areas of business. Business operators must be willing to participate in the Certified Business Skills CO-OP program.

# **DRIVER EDUCATION**

Driver Education is offered to Fort Atkinson High School students through the contracted services of Tri-City Driving School. The course will be offered as a quarter-long class during the school day. Additionally, Tri-City occasionally offers evening classes and summer classes. This is a non-credit class and will not count toward the student's GPA.

## **Course Length**

- 30 hours classroom required by the state (1 Quarter session)
- 6 Behind-the-wheel lessons

## **Process and Requirements**

- Contract and Payment with Tri-City Driving School on Day 1
- Class conducted during one quarter in classroom
- Optimal age to start the class is 15 years or will be 15 at the end of the quarter
- The student can obtain instruction permit at completion of class
- Instruction permit testing provided to all in class students
- Driving lessons begin upon obtaining instruction permit
- Student needs to be a minimum of 15 to get instruction permit
- Under 15: they can take testing at end of quarter, but will wait until 15 to obtain permit and begin lessons
- Behind-the-Wheel conducted during second portion of the quarter during study hall and after school
- Student may have a study hall (period following Driver's Education quarter session)
- It is optimal to conduct driving lessons during study halls

## **Cost of the program**

\$390.00 for classroom and 6 Behind-the-wheel lessons.

Additional questions please contact:

Kyle or Melissa Erb

920-691-2202

tricityds@gmail.com

# ENGLISH

Course Name	Credit	9	10	11	12	Prerequisite
English 9	1	X				None
Accelerated English 9	1	X				See Description Below
English 10	1		X			None
Accelerated English 10	1		X			See Description Below
English 11	1			X		None
Accelerated English 11	1			X		See Description Below
Newspaper Journalism	1	X	X	X	X	Consent of Instructor
Yearbook Journalism	1	X	X	X	X	Consent of Instructor
Contemporary Literature*	½				X	None
Survey of Drama*	½		X	X	X	None
Contemporary Communications*	½		X	X	X	English 9/Accelerated English 9
Creative Writing*	½		X	X	X	None
Essay Writing*	½				X	See Description Below
English Seminar*	½		X	X	X	English 9/Accelerated English 9
Intro to College Writing & College Reading Strategies - DC*	1				X	None
AP English Literature*	1				X	Successful completion of English Honors Program strongly recommended

**\*These semester courses serve as the English requirement for Seniors. Seniors are required to choose one of the three writing courses and one of the five literature courses to meet their Senior English requirement. Seniors must take at least one English course each semester unless they have prior approval from the English Department Chair and the High School Principal.**

## **ENGLISH 9**

Grade Level: 9

Credit: 1

Length: Full Year

Prerequisite: None

English 9 is a required core academic course aligned to the Wisconsin Standards. English Language Arts is an integrated discipline in which reading, writing, listening, speaking and language skills are developed. Throughout the year, students will be challenged to increase their proficiency within these disciplines through reading and

analyzing complex texts in a variety of genres, utilizing the writing process to research and produce narrative, informative, and argumentative texts, participating in listening and speaking experiences, acquiring and applying English language conventions knowledge, and learning and using vocabulary-solving strategies. Technology is integrated into instruction to both engage learners and enhance development 21st century skills.

Because English Language Arts instruction builds an understanding of the human experience through critical thinking, problem-solving, communication,

collaboration, and creativity, the curriculum is delivered through a thematic approach centered on a quarterly theme to provide a common context for learning grounded in the exploration of essential questions to acquire deeper meaning and understanding of content and literacy skills. Grade 9 quarterly themes include individuality, advocacy, balance, and risk.

### **ACCELERATED ENGLISH 9**

Grade Level: 9

Credit: 1

Length: Full Year

Prerequisite: Student is required to meet at least 2 of the following prerequisite criteria to enroll:

- Advanced on the grade 8 English Language Arts Forward Exam
- Grade 8 English Language Arts quarterly grade of A for at least 3 out of 4 quarters
- If two of the three prior data points are not met, grade 8 English Language Arts Teacher and/or District Gifted and Talented Program Coordinator recommendation(s) will be considered

Accelerated English 9 includes all of the core academic standards included in English 9; however, the Accelerated English 9 course provides the additional content and rigor needed to prepare students for the AP English Literature and/or AP English Language courses. The Accelerated English 9 course also includes the ELA content and skills required to earn an Advanced level of achievement (27 on the Reading and English exams) as defined by the ACT Career and College Readiness Framework.

Students will be challenged through reading and analyzing advanced-level texts in a variety of genres, utilizing the writing process to research and produce narrative, informative, and argumentative texts, participating in listening and speaking experiences, acquiring and applying English language conventions knowledge, and learning and using vocabulary-solving strategies. Technology is integrated into instruction to both engage learners

and enhance 21st century skills. The Accelerated English 9 course incorporates a higher quantity of reading both in and outside of class time than the English 9 course and, overall, incorporates a larger percentage of classic literature identified by the College Board (AP).

The Accelerated English 9 course is taught through the same thematic approach as English 9 centering on a quarterly theme to provide a common context for learning grounded in the exploration of essential questions to acquire deeper meaning and understanding of content and literacy skills. Grade 9 quarterly themes include individuality, advocacy, balance, and risk.

### **ENGLISH 10**

Grade Level: 10

Credit: 1

Length: Full Year

Prerequisite: None

English 10 is a required core academic course aligned to the Wisconsin Standards. English Language Arts is an integrated discipline in which reading, writing, listening, speaking and language skills are developed. Students will be challenged to increase their proficiency within these disciplines through reading and analyzing complex texts in a variety of genres, utilizing the writing process to research and produce narrative, informative, and argumentative texts, participating in listening and speaking experiences, acquiring and applying English language conventions knowledge, and learning and using vocabulary-solving strategies. Technology is integrated into instruction to both engage learners and enhance development 21st century skills.

Because English Language Arts instruction builds an understanding of the human experience through critical thinking, problem-solving, communication, collaboration, and creativity, the curriculum is delivered through a thematic approach centered on

a quarterly theme to provide a common context for learning grounded in the exploration of essential questions to acquire deeper meaning and understanding of content and literacy skills. Grade 10 quarterly themes include adversity, influence, social justice, and grit.

### **ACCELERATED ENGLISH 10**

Grade Level: 10

Credit: 1

Length: Full Year

Prerequisite: Student is required to meet at least 2 of the following prerequisite criteria to enroll:

- Score on the Grade 9 ACT Aspire Reading and English Exam at the “Exceeding” Level
- Cumulative GPA of 3.5 or higher
- Accelerated English 9 semester grade of A for at least 1 of the 2 semesters and no lower than a B either semester
- If two of the three prior data points are not met, if enrolled in English 9, English Teacher and/or District Gifted and Talented Program Coordinator recommendation(s) will be considered

Accelerated English 10 includes all of the core academic standards included in English 10; however, the Accelerated English 10 course provides the additional content and rigor needed to prepare students for the AP English Literature and/or AP English Language courses. The Accelerated English 10 course also includes the ELA content and skills required to earn an Advanced level of achievement (27 on the Reading and English exams) as defined by the ACT Career and College Readiness Framework.

Students will be challenged through reading and analyzing advanced-level texts in a variety of genres, utilizing the writing process to research and produce narrative, informative, and argumentative texts, participating in listening and speaking experiences, acquiring and applying English language conventions knowledge, and learning and using vocabulary-solving strategies. Technology is integrated into instruction to both engage learners

and enhance 21st century skills. The Accelerated English 10 course incorporates a higher quantity of reading both in and outside of class time than the English 10 course and, overall, incorporates a larger percentage of classic literature identified by the College Board (AP).

The Accelerated English 10 course is taught through the same thematic approach as English 10 centering on a quarterly theme to provide a common context for learning grounded in the exploration of essential questions to acquire deeper meaning and understanding of content and literacy skills. Grade 10 quarterly themes include adversity, influence, social justice, and grit.

### **ENGLISH 11**

Grade Level: 11

Credit: 1

Length: Full Year

Prerequisite: None

English 11 is a required core academic course aligned to the Common Core English Language Arts Standards. English Language Arts is an integrated discipline in which reading, writing, listening, speaking and language skills are developed. Students will be challenged to increase their proficiency within these disciplines through reading and analyzing complex texts in a variety of genres, utilizing the writing process to research and produce narrative, informative, and argumentative texts, participating in listening and speaking experiences, acquiring and applying English language conventions knowledge, and learning and using vocabulary-solving strategies. Technology is integrated into instruction to both engage learners and enhance development 21st century skills.

Because English Language Arts instruction builds an understanding of the human experience through critical thinking, problem-solving, communication, collaboration, and creativity, the curriculum is delivered through a thematic approach centered on

a quarterly theme to provide a common context for learning grounded in the exploration of essential questions to acquire deeper meaning and understanding of content and literacy skills. Grade 11 quarterly themes include honor and worth, sacrifice, ingenuity, and ambition.

### **ACCELERATED ENGLISH 11**

Grade Level: 11

Credit: 1

Length: Full Year

Prerequisite: Student is required to meet at least 2 of the following prerequisite criteria to enroll:

- Score on the ACT Aspire Reading and English Exam at the “Exceeding” Level
- Cumulative GPA of 3.5 or higher
- Accelerated English 10 semester grade of A for at least 1 of the 2 semesters and no lower than a B either semester
- If two of the three prior data points are not met, if enrolled in English 10, English Teacher and/or District Gifted and Talented Program Coordinator recommendation(s) will be considered

Accelerated English 11 includes all of the core academic standards included in English 11; however, the Accelerated English 11 course provides the additional content and rigor needed to prepare students for the AP English Literature and/or AP English Language courses. The Accelerated English 11 course also includes the ELA content and skills required to earn an Advanced level of achievement (27 on the Reading and English exams) as defined by the ACT Career and College Readiness Framework.

Students will be challenged through reading and analyzing advanced-level texts in a variety of genres, utilizing the writing process to research and produce narrative, informative, and argumentative texts, participating in listening and speaking experiences, acquiring and applying English language conventions knowledge, and learning and using vocabulary-solving strategies. Technology is integrated into instruction to both engage learners

and enhance 21st century skills. The Accelerated English 11 course incorporates a higher quantity of reading both in and outside of class time than the English 11 course and, overall, incorporates a larger percentage of classic literature identified by the College Board (AP).

The Accelerated English 11 course is taught through the same thematic approach as English 10 centering on a quarterly theme to provide a common context for learning grounded in the exploration of essential questions to acquire deeper meaning and understanding of content and literacy skills. Grade 11 quarterly themes include honor and worth, sacrifice, ingenuity, and ambition.

### **NEWSPAPER JOURNALISM**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

This course teaches students the importance of the press in a free society and develops skills in gathering, writing, and editing news related to high school students and staff. Members of the class, who make up the staff of the school’s paper, “The Signal,” learn how to precisely and objectively as they construct news leads and stories, write headlines, solicit and design advertising, take, develop and crop photos for publication, lay out pages and prepare final pages for production. The responsibility of meeting deadlines is stressed. Students should also be prepared to spend time after school and on weekends in the production phase of the newspaper.

### **YEARBOOK JOURNALISM**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Principles of good yearbooking are studied such as the importance of choosing and implementing a

theme, planning pages, employing modern graphic design, securing photos to get the best results, and writing copy to best record a year of high school history. The importance of punctuality is made clear by the necessity of meeting deadlines. First Amendment rights and responsibilities related to the school press are also stressed. Students design pages, plan pictures and photo schedules, write copy and headlines, sell yearbooks, contact sponsors, proofread copy and distribute yearbooks. They work together on fund-raisers to defray publishing costs. The computer is utilized in all phases of their work: writing, design and business. Students should be prepared to spend time after school and on weekends to meet deadlines.

### **CONTEMPORARY LITERATURE**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This course is designed to explore the individual within society. There is an emphasis on the genre, format, literary techniques, and power of ideas within the selected novels. Short stories and poetry may be used to foster understanding of the novels. This course requires at least twenty pages of reading nightly, and the course is taught at the college preparatory level.

### **SURVEY OF DRAMA**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: English 9 or Accelerated English 9

Survey of Drama will delve into theatrical works throughout history. From Ancient Greece to Musical Theater, from Lin Manuel Miranda to William Shakespeare, this course will provide students with opportunities to experience dramatic literature from multiple time periods and cultures. Students will engage in literary analysis, academic discussion, and hands-on interpretive projects that will allow them to fully immerse themselves in their learning.

### **CONTEMPORARY COMMUNICATIONS**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: English 9 or Accelerated English 9

This course teaches strategies that focus on career and college skills specific to written, verbal, and technology-based communication. Students will learn how to analyze, design, and write various speeches and presentations. Projects may include but are not limited to persuasive speeches, remote meetings, interviews, sales presentations, how-to videos, and podcasts.

This course will satisfy the 0.5 composition credit for 12th grade. Sophomores and juniors are eligible to take this class but must also take English 10/Accelerated English 10 or English 11/Accelerated English 11 at the same time.

### **CREATIVE WRITING**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This college-preparatory writing class is designed for those who enjoy writing. The focus will be on developing higher-level writing skills and producing finished works. Students will be expected to work through the writing process for polished, published pieces. Writing assignments may include poetry, fiction, creative nonfiction, advertising, children's literature, and analytical writing. Students should note that this class involves sharing written work with other students and supplying feedback to other authors on a regular basis.

## **ESSAY WRITING**

Grade Level: 12

Credit: ½

Length: Semester

Prerequisite: At Least a B in English 11 or Accelerated English 11 or Teacher

Recommendation

This is a writing-intensive course focused on the essay format, while still developing skills in informal writing (such as journal writing and daily topics). All stages of the writing process will be discussed, examined, and expected in the students' own writing. Skills will range from vocabulary/grammar/reflective writing to research writing. The pace and deadline expectations for this class simulate a college class. This course is highly recommended for the college-bound student.

## **ENGLISH SEMINAR**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: English 9/Accelerated English 9

This course focuses on unique and highly engaging literature topics/genres. Students will read novels, essays and short stories of a particular genre. Students will examine, evaluate, and provide literary analysis for their reading while finding real-world applications. Reading outside of class will be required. ***The literary topics and genres will rotate every semester to meet various student interests.***

This course will satisfy the 0.5 literature credit for 12th grade. Sophomores and juniors are eligible to take this class but must also take English 10/Accelerated English 10 or English 11/Accelerated English 11 at the same time.

## **INTRODUCTION TO COLLEGE WRITING AND COLLEGE READING STRATEGIES (Dual Credit)**

Grade Level: 12

Credit: 1

Length: Full-Year



Prerequisite: None

This dual credit curriculum combines two independent Madison College courses (Intro to College Writing and College Reading Strategies), which are designed to prepare students for successful completion of English I (a college-level first-year composition course) and to introduce students to the reading and writing skills needed in most college-level classes and by many employers. The course teaches basic principles of composition (including organization, development, unit, and coherence in paragraphs and multi-paragraph documents), various college study skills, and college reading techniques (including identifying main ideas and supporting details, highlighting and annotating texts, summarizing, and making inferences). The emphasis of the course is on developing the critical thinking and reading skills needed to become successful college readers and writers. Dual credit at Madison College is available for seniors who earn a C or better for their course work and their final exams for ***both*** semesters. This class meets both the composition and literature requirements for senior English.

## **ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Summer reading is required. At least a "B" in Accelerated English 11 and teacher approval

This course is designed for the students who are seeking a challenge beyond the regular course of study. There is the possibility of obtaining college credit through the successful scoring of the AP exam near the end of the school year; students are to hold the expectation of taking the exam as part of the class. Students will engage in careful reading and in-depth analysis of various literary works. Students will be expected to have completed the summer reading individually so as to begin the year with that literature's coverage. This class meets both the composition and literature requirements for senior English.

# FAMILY AND CONSUMER EDUCATION

Course Name	Credit	9	10	11	12	Prerequisite
Introduction to Foods - DC	½	X*	X*	X*	X*	None
World Kitchens	½	X	X	X	X	Introduction to Foods
Baking, Pastries, & Chocolatiering -DC	½		X	X	X	Introduction to Foods and World Kitchens
ProStart I – Culinary Arts Intro. to Hospitality - DC	1			X*	X*	Intro to Foods or Consent of Instructor
ProStart II - Culinary Arts/Food Service Management - DC	1			X*	X*	Intro to Foods or Consent of Instructor
Food Service COOP	½ - 1			X	X	ProStart I or concurrent enrollment in ProStart II or Intro To Foods
Creative Sewing	½	X	X	X	X	None
Fashion Analysis	½		X	X	X	None
Housing & Interior Design	½		X	X	X	None
Child Development/Parenting	½		X	X	X	None
Assistant Childcare Teacher	1			X	X	Child Development/Parenting
Child Care COOP	½ - 1			X	X	Child Development and ACCT
Independent Living	½				X	None
Youth Apprenticeship Health Services	½ - 1			X	X	Nursing Assistant Madison College Youth Options
Youth Apprenticeship Hospitality, Lodging, and Tourism	½ - 1			X	X	Any 2 Food Classes

\*Dual Credit with WCTC

## **INTRODUCTION TO FOODS (Dual Credit)**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Lab Fee: \$25



This is an introductory cooking course offering students the fundamentals of food preparation for the household. Major units include safety and sanitation, nutrition, meats, fruits and vegetables, dairy and cheese, eggs, and baking. We will be in the kitchen preparing and eating food several times every week. Students may have the opportunity to receive two (2) college credits from Waukesha County Technical College. Some examples of foods prepared are: pancakes, pizza, fajitas, twice-baked

potatoes, apple crisp, cinnamon rolls, soft pretzels, tacos, banana chocolate chip muffins, along with many other foods.

## **WORLD KITCHENS**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Introduction to Foods

Lab Fee: \$25

Students will build upon knowledge and skills acquired in Introduction to Foods while allowing their taste buds to travel the world. The course explores the cuisines and cultures of various countries. Learn how environmental and social influences shape people's diets while we cook and eat many of the diverse and delicious food that the

culinary world has to offer.

Some examples of foods prepared are: curried chicken, enchiladas, crème brulee, chicken gumbo, homemade pasta, matzo ball soup, Thai fried rice, spring rolls, cannoli, and much more!

### **BAKING, PASTRIES, CHOCOLATIERING** **(Dual Credit)**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Introduction to Foods and World Kitchens

Lab Fee: \$25



Our Baking, Pastries, and Chocolatiering class will prepare you for a successful career in the baking profession and advance your skills as a home baker. We will help you build a solid foundation of baking principles and skills through the mastering of many new techniques and recipes. Students will prepare a wide variety of baked goods, pastries, and confections. Students may have the opportunity to earn credit from Waukesha County Technical College.

### **PROSTART & CULINARY I (Dual Credit)**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Introduction to Foods

Lab Fee: \$25



Want to impress your friends and family with your knowledge of the culinary arts? Learn about the hospitality industry, visit fine dining establishments, and work with professional chefs while preparing foods in our kitchen. ProStart 1 is a 1 credit year-long culinary program designed for those who are interested in pursuing either a career in the food service industry or pursuing post-secondary education in the hospitality and tourism field. Students who successfully complete the program can receive certification from the National Restaurant Association (NRA) which will provide them with articulated college credit or advanced

standing opportunities at some 30+ colleges and universities across the United States, along with many scholarship opportunities. Students will also work toward receiving ServSafe Sanitation Management Certification through the NRA which allows the student to get their sanitation managers license through the State of Wisconsin Health Department. As part of the practical learning process, students run a catering business through the high school and participate in contests. Students interested in pursuing this class as an option should intend on gaining employment in a related field to gain full certification. Students are encouraged to enroll in the Food Service Coop or Youth Apprenticeship program concurrently if they are employed in a food service related occupation. Students may have the opportunity to receive 1 college credit from Waukesha County Technical College (WCTC).



### **PROSTART & CULINARY II (Dual Credit)**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: ProStart I with a grade of C or better or Consent of Instructor

Lab Fee: \$25

This advanced level course builds upon the concepts and skills addressed in ProStart & Culinary I.

Please see the ProStart & Culinary I course description above. Students may have the opportunity to receive two (2) college credits from Waukesha County Technical College.

### **FOOD SERVICE CO-OP**

Grade Level: 11, 12

Credit: ½ - 1

Length: ½ Full Year

Prerequisite: ProStart I or concurrent enrollment in ProStart II or Intro to Foods

This one-year, advanced skill-level course allows the student to gain experience in the Foodservice industry by gaining successful employment with a

food service related facility. The student needs to have taken Introduction to Foods. Students will be responsible to find their own employment. Students will be working towards attaining the Wisconsin Skills Certificate in Food Service. In this CO-OP, students work with a workplace mentor and school site facilitator to assess student progress throughout the period of employment. The student must remain employed throughout the CO-OP experience to gain successful credit.

### **YOUTH APPRENTICESHIP**

Grade Level: 11, 12

Credit: ½ -1

Length: ½ - full year

Prerequisites: Consent of Instructor and Excellent Attendance Record,

These one or two year programs are designed to integrate school-based and work-based learning. Programs will provide academic and occupational skills necessary for employment and/or advanced standing in a post-secondary technical program. Students who register go through an application process to be accepted into the program. Acceptance criteria will include: attendance, GPA, teacher recommendations and high school credits at grade level. Students must also be concurrently registered in a related course each semester. Students are responsible for gaining employment in a related, relevant job. Seniors must complete their hours by August 31 of their graduation year. Employment sites must agree to pay Youth Apprentices at least minimum wage.

Students will receive a Certificate of Occupational Proficiency from the Wisconsin Department of Workforce Development for completion of a Level 1 program.

The following areas are available:

#### **• Health Services**

The specialty areas completed include: Health Care Foundations (HCF), Health Information Management (HIM), Medical Assistant (MA), Nursing Assistant (NA), and Pharmacy Technician (PHARM). For successful completion of the **LEVEL ONE** students must complete core abilities, minimum of one specialty area, 2 semesters

related instruction, and a minimum of 450 work hours. **LEVEL TWO** Students must complete core abilities, minimum of two specialty areas, 4 semesters related instruction, and a minimum of 900 work hours. Related classes include: chemistry, general anatomy and physiology, AP biology, molecular chemistry.

#### **• Hospitality, Lodging, and Tourism**

The Pathways identified are: Food and Beverage Services include a Dining Area and Kitchen Area Units, Lodging Pathway include Front Office and Housekeeping Unit, and Travel and Tourism Pathway include Reservation and Tour activity unit. All Pathways include maintenance and Grounds, Meetings and Events, Marketing and Sales I and II, and Management I and II Units. Requirements include Two units , 2 semesters related instruction, and a minimum of 450 work hours.

### **CREATIVE SEWING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisites: None

This semester course is designed to provide students with the knowledge and skills necessary to sew or to enhance their current sewing knowledge and skill set. The course begins with the basics of hand sewing and use of the sewing machine and additional topics will include using patterns, textiles (weaving and knitting), seam finishes, and other construction elements. Throughout the course of the semester, students will be allowed to choose projects that appropriately showcase their skills and demonstrate their understanding of current topics. Students who enter the class with previous sewing knowledge will be encouraged to personalize their learning. Advanced sewing students may choose an area of focus, devise a plan and work independently.

**Materials and supplies will be the responsibility of the student.**

### **FASHION ANALYSIS**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisites: None

This course is designed to introduce students to the elements and principles of design as they relate to fashion trends, past and present. Students will explore their own personal style and preferences as well as analyzing how their choices are influenced by creators, the media and celebrities. Fashion design students will create digital mood boards, window displays, and learn to sketch the croquis (fashion figure) to use for clothing design. They will study and analyze fabric, fashion promotion, garments, accessories and contemplate sustainability and eco-friendly options. Creativity, self-expression and identifying sources of design inspiration are major components of the course.

### **HOUSING AND INTERIOR DESIGN**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisites: None

In this course students will discover how science and art blend together in the world of interior design and architecture. Design students will develop their digital design skills (CAD), and get experience in creating floor plans, elevation plans, and mood boards. This semester-long course provides opportunities to deepen understanding of the elements and principles of design through a variety of assignments, and hands-on projects. During their exploratory work, students will discover how the basic architectural principles (structural sound, function, and aesthetics) are essential to building construction. Studies will include the trends and benefits of upcycling. Students will study color, furniture and home trends and learn how consumer needs and history influence designer decisions.

### **CHILD DEVELOPMENT & PARENTING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisites: None

Understanding the areas of child development, ages, stages and milestones prepares students for parenting and careers. This course is an excellent opportunity for students seeking to investigate career clusters in Human Services and Education and Training. Pediatric nurses, doctors, coaches, counselors and social workers are just a handful of careers which require learning best practice for fostering a child's development. This is a must have class for any student who is planning on a career in elementary education, child counseling, daycare provider/owner, or planning on being a parent. This semester course is designed to provide students with the opportunity to learn about pregnancy, parenting styles, and the physical, intellectual, social and emotional development stages of infants, toddlers, preschoolers and school aged children. Additional topics discussed include: strategies for parenthood, the impact of shaken baby/abusive head trauma, selecting age-appropriate, safe toys and the importance of providing developmentally appropriate books for cognitive development. Finally, students will have an opportunity to develop and practice basic infancy care skills as they participate in the "RealCare Baby 3" simulation experience.

### **ASSISTANT CHILDCARE TEACHER**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisites: Child Development/Parenting

This year-long, children as it is designed to provide students with knowledge and skills necessary to pursue a career in child care. Students will complete 20 hours of on-the-job experience/observation with children between the ages of birth and three in a licensed child care facility. Class time will be spent on developing lesson plans, learning to select appropriate activities and resources for children,

planning nutrition, professionalism, current issues and trends in the daycare profession and designing their own learning environment for early childhood.

### **CHILD CARE CO-OP**

Grade Level: 11, 12

Credit: ½ - 1

Length: Semester to Full Year

Prerequisite: Assistant Childcare Teacher

This one-year, advanced skill-level course allows the student to gain experience in the Child Care industry by gaining successful employment with a daycare provider. The student needs to have taken Parenting/Child Development and Assistant Child Care Teacher prior to being accepted in this CO-OP. Students will be responsible to find their own employment. Students will be working towards attaining the Child Care Teacher Certification. In this co-op, students work with a workplace mentor and school site facilitator to assess student progress throughout the period of employment. The student must remain employed throughout the co-op experience to gain successful credit.

### **INDEPENDENT LIVING**

Grade Level: 12

Credit: ½ - 1

Length:

Prerequisite: None

The Independent Living course provides students opportunities to develop the essential skills necessary to address life's challenges as they enter and proceed through adulthood. Course topics will focus on developing: social and emotional growth, interpersonal skills, budgeting and personal finance, career exploration, consumerism, health and wellness habits, housing options, transportation, environmental responsibilities and community service. Through a variety of activities students will develop independent living skills and essential skills to help with personal and work relationships, to cultivate a deeper understanding of self, and to take responsibility for personal success in life.

# HEALTH: Relationships/Wellness

Course Name	Credit	9	10	11	12	Prerequisite
Health: Relationships and Wellness	½			X	X	None

**“The first wealth is health”-Ralph Waldo Emerson**

Health is a semester long required course for juniors. During the course students will be reflecting on a variety of topics and how their choices either increase or decrease their risk when trying to protect the things in their life that are most important to them. The course is divided into the following topic areas: first aid/CPR, nutrition/fitness, alcohol, tobacco/vaping and other drugs, destructive decision making, relationships and human growth and development. At the conclusion of this course students should have reliable information that would enable them to make choices towards a healthy lifestyle now and in the future.

# HIGH SCHOOL INDEPENDENT STUDIES GUIDELINES

## The Independent Studies program is structured:

1. To provide experiences for high school students which will reach beyond the regular high school curriculum.
2. To aid individuals to develop their self-discipline as fully as possible, emphasizing the factors of independent creative inquiry.
3. To develop a proper attitude toward and respect for learning.
4. To develop the skill of problem solving.

## The Independent Studies Program Guidelines:

1. Students complete an Independent Study Application (found in the Pupil Services Office) with their teacher at the beginning of the semester.
2. The completed application form (including outline, objectives, time allocation, supervision schedule and method of evaluation) must be turned in to the office by the end of the first week of the semester in which the Independent Study is to be undertaken.
3. The student should demonstrate exceptional interest in the subject area in which the Independent Studies project is to be undertaken.
4. Course work in the subject area already offered through the high school curriculum must have been completed prior to the beginning of the Independent Studies project.
5. Independent Studies projects should not duplicate or replace courses available through the regular curriculum.
6. A student must carry six regular classroom credits in addition to the Independent Studies project.
7. Independent Studies projects may NOT be taken to fulfill specific department requirements for graduation.
8. The credit to be earned for each program will be determined by the student, the teacher, and the principal through mutual agreement.
9. Independent Studies forms must be initialed by the head of the department sponsoring the Independent Study to indicate his/her awareness of the project. The form must also be signed by the supervising teacher, the student, and the parent/guardian indicating that they understand and agree with the terms of the project. The signature of the school counselor will indicate that the student has signed up for the required six credits for the school year. The principal's signature will indicate final acceptance of the contract and terms of the project.

# **JEDI VIRTUAL SCHOOL**

JEDI coursework is meant for students who want to take courses that are not offered by Fort Atkinson High School or who have schedule conflicts that do not allow the student to take a class they chose at Course Selection. Information about JEDI Virtual School can be found at [www.jedivirtual.org](http://www.jedivirtual.org) or by meeting with your school counselor.

Students enrolling in a JEDI high school course should see their school counselor in August to enroll in a 1<sup>st</sup> semester course or in December to enroll in a 2<sup>nd</sup> semester class. Enrollment is completed through the school counselor.

By taking a course through JEDI Virtual School, the student agrees to complete all of the coursework and pass the course. Failure to do so results in the student reimbursing Fort Atkinson High School for the cost of the course that was paid on the student's behalf.



# CAREER PATHWAYS

Course Name	Credit	9	10	11	12	Prerequisite
Career Pathways	1/2		X			None

## **CAREER PATHWAYS**

Grade Level: 10

Credit: ½

Length: Semester

Prerequisite: None

The primary purpose of this course is to guide students through the decision making process that will lead them to setting initial post high school career plans. Secondary goals would include the student becoming familiar with high school curricular opportunities available to them during their junior and seniors years, the Senior Portfolio, and finding relevancy for their daily learning and how it is connected to their future goals.

Students will be guided through a sequence of instructional experiences, which will lead them to an initial career goal, and empower them to reuse these skills in the future as they continue to change and modify their goals. The instruction will enable them to be able to complete the following:

- ✓ Identification of their personal work preferences (interests, skills, values, length of training)
- ✓ Familiarity and proficiency in accessing information through the internet and Xello. The types of information sought will be regarding occupations, types of training programs that will lead to the field, schools or other agencies offering the training etc.

- ✓ Identify a group of occupations that potentially match their preferences.
- ✓ Develop a course plan for the junior and senior year that correlates to their established goals.
- ✓ Continue to develop their Senior Portfolio that is reflective to date of their experiences and accomplishments.

Group and individual discussion will be highly emphasized in this course. Students will be involved in activities which help them clarify their learning style preference, personalities with regards to occupational selection, and value clarification with regards to a number of occupational characteristics. Daily living skills and concepts such as budgeting, credit card management, conflict resolution, and personal responsibility will be covered in the course. Additional areas of study will include: skills/traits necessary for academic and work success as well as the areas needed to secure employment.

## **Career Cluster Model**

Counselors and instructors will be using the Career Clusters national model when discussing occupational choices. With each cluster the occupations are further divided into “Pathways.” Occupations are also organized by career clusters on the Xello platform (see page 12 for information about Xello.) The 16 Career Clusters are as follows:

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

School Counselors occasionally present in the classroom on the following topics:

- ❖ Senior Portfolio and Xello updating
- ❖ Admissions requirements to the UW System, private colleges and the technical colleges. A review of key reference materials are distributed and reviewed.
- ❖ How to incorporate college courses at Madison College or UW Whitewater into a student's high school schedule
- ❖ Military opportunities
- ❖ Explanation of testing opportunities: PSAT/NMSQT, ASVAB, ACT, SAT, AP Exams.
- ❖ Curriculum opportunities available to students, such as JEDI courses, Advanced Placement and Dual Credit courses, military early entrance options, Start College Now (technical college courses), Early College Credit Program (four year college courses), and independent studies.
- ❖ Computerized career and educational programming search through the Xello platform.

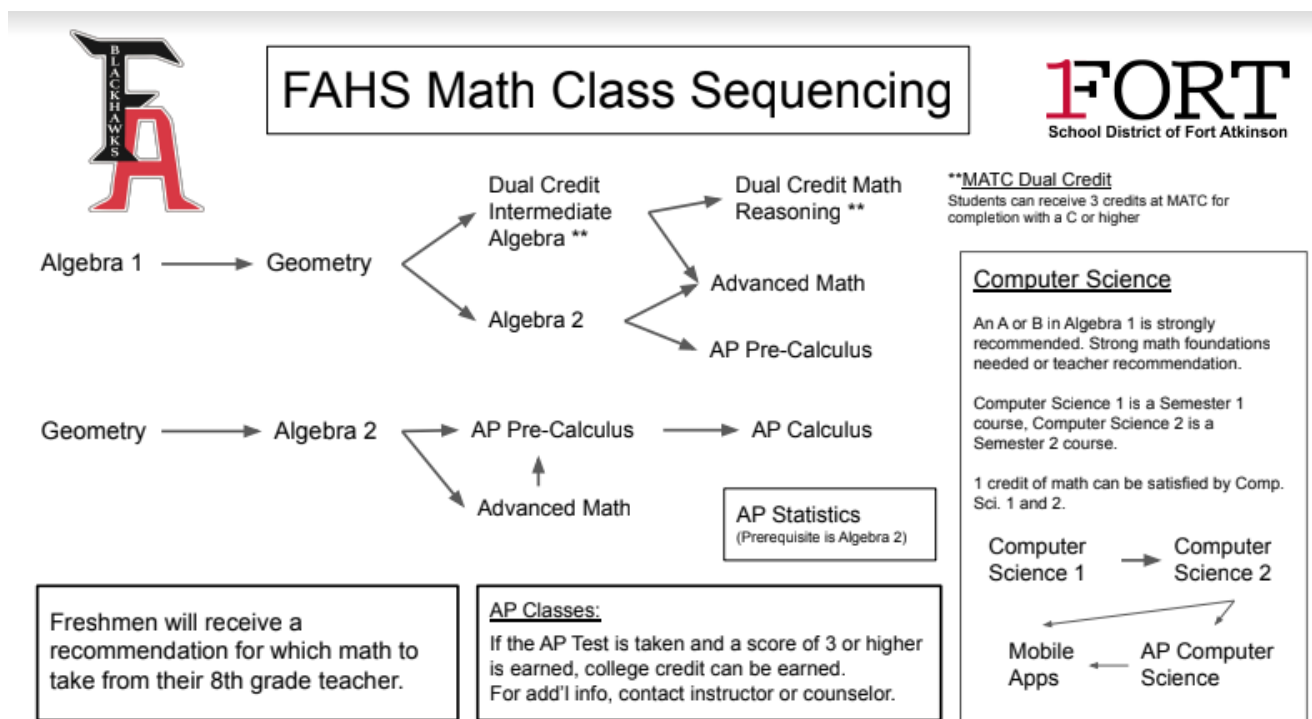
# MATHEMATICS

Today's students, in planning their future, must carefully consider the courses they should take in mathematics. This country and its way of life demand that a large percent of its successful citizens know and understand mathematics as it is applied to today's increasing technology.

Three credits of math are required for graduation from FAHS. One of these credits must be from successful completion of Algebra 1. Four year colleges have a minimum requirement of successful completion of Algebra 2 and highly recommend four years of math. The aim of courses beyond Algebra 1 is to lay a strong foundation for students who will be attending a four year college or technical school. AP Calculus, AP Computer Science, and AP Statistics are offered for those students wishing to take advanced placement courses. Math Reasoning and Intermediate Algebra are dual credit with Madison College, and can satisfy degree requirements for certain programs at that college.

Freshman course selection is determined by teacher recommendation. All other students should then follow the course sequence listed below.

Computer Science courses are also offered in the Math Department as an elective. CS1 and CS2 can count towards math credit for graduation purposes. Most four year colleges accept Computer Science and AP Statistics as an elective credit, not a math credit..



## HIGH SCHOOL CREDIT DISTRIBUTION REQUIREMENTS

All UW System institutions require a **minimum** of 17 high school credits distributed as follows:

### Core College Preparatory Credits

English	4 credits
<i>Mathematics (Algebra I, Geometry, Algebra II)</i>	<b>3+ credits</b>
Social Science	3 credits
Natural Science	3 credits
<b>TOTAL</b>	<b>13 credits</b>

Course Name	Credit	9	10	11	12	Prerequisite
Algebra I	1	X	X	X		None
Geometry	1	X	X	X	X	Successful completion of Algebra I
Algebra II	1		X	X	X	Successful completion of Geometry
AP Pre-Calculus	1			X	X	Successful completion of Algebra II
AP Calculus AB	1				X	Successful completion of AP-Pre-Calculus
Advanced Math	1			X	X	Successful completion of Algebra II or Intermediate Algebra - DC
Math Reasoning - DC	1				X	Successful Completion of Geometry
Intermediate Algebra - DC	1			X	X	Successful Completion of Geometry
AP Statistics	1			X	X	Successful completion of Algebra II
Computer Science 1	½		X	X	X	Successful completion of Algebra I
Computer Science 2	½		X	X	X	Successful completion of Computer Science 1
AP Computer Science	1			X	X	Successful Completion of Computer Science 2
Mobile App Development	½			X	X	Successful Completion of Computer Science 2

*Instructor recommendation required if a student is missing prerequisite course completion.*

### ALGEBRA I

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full

Prerequisite: None

Students will strengthen their algebraic skills that will be the foundation of their future mathematical studies. Students will engage in problem-based lessons structured around a core idea. Guided by the teacher, students will interact in groups to foster mathematical discourse. Practice with concepts will be spaced over time and mastery comes as the course progresses. Concepts include: Functions,

Linear Relationships, Simplifying and Solving Equations, Sequences, Modeling 2-Variable Data, and Inequalities. Students who have successfully completed Algebra 1 should take Geometry as the next course.

### GEOMETRY

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of Algebra 1

Students will engage in problem-based lessons structured around a core idea. Guided by the

teacher, students will interact in groups to foster mathematical discourse. Practice with concepts will be spaced over time and mastery comes as the course progresses. Concepts include: Shapes and Transformations, Angles and Measurement, Justification and Similarity, Trigonometry and Probability, Congruent Triangles, Proof and Quadrilaterals, Polygons, Circles, Solids and Constructions. Students who have successfully completed Geometry should take Algebra 2 as the next course. Students who struggled with Algebra 1 and Geometry should consider taking Elementary Algebra before taking Algebra 2.

## **ALGEBRA II**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of Geometry

This course continues the study of Algebra. Four year colleges and many technical schools require the completion of Algebra II. Students will engage in problem-based lesson structured around a core idea. Guided by the teacher, students will interact in groups to foster mathematical discourse. Practice with concepts will be spaced over time and master comes as the course progresses. Topics include: Functions, Transformations, Solving Equations and Intersections, Inverses, Logarithms, Trigonometry, Polynomials, Normal Distributions, Sequences and Series, Exponential Functions, Probability and Statistics. Students who are successful in Algebra II should consider taking Pre-Calculus. Those students not considering Pre-Calculus could continue to strengthen their math skills by enrolling in Advanced Math or Elementary Algebra.

## **MATH REASONING (Dual Credit)**

Grade Level: 12

Credit: 1

Length: Year

Prerequisite: Successful completion of Geometry

This course focuses on a handful of highly-relevant topics to develop the deep level of understanding needed to use numbers when making and defending decisions. “Should my business hire another worker

or lay someone off? Which car should I buy? Was I overcharged? What is that deceptive political ad really saying? Is that policy fair?” Expect to brainstorm, discuss, critique, and evaluate. Students will write, speak, and present much more than in a traditional math course.

This course teaches students to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity-based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop tools that support the use of key mathematical concepts in a variety of contexts. This course satisfies the math requirement for many 2-year applied programs at Madison College. This course does NOT meet math requirements for Science, Technology, Engineering, Medical, or Math programs at Madison College or Madison College bachelor’s degree transfer programs.

Dual Credit: Completing this class with a C or better (following the dual credit guidelines) allows you to earn credit at Madison College for this course.

## **INTERMEDIATE ALGEBRA (Dual Credit)**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of Geometry

Intermediate Algebra studies the construction and resulting properties of the real number system. Students simplify and factor algebraic expressions using fundamental laws and order of operations, solve first and second degree equations and inequalities in one variable, solve exponential and logarithmic equations, graph first degree and second degree equations and inequalities in two variables, solve 2x2 and 3x3 systems of equations, simplify and solve equations involving rational expressions, and simplify and solve equations involving fractional exponents and radicals. Students are introduced to linear, quadratic, square root, absolute value, exponential, and logarithmic

functions. The basic definitions of functions, relations, one-to-one functions, and inverses are discussed along with the algebra and composition of functions.

This course is equivalent to Intermediate Algebra with Apps at Madison College. This course satisfies the math requirement for many 2-year programs at Madison College including a partial requirement for Madison College's bachelor's degree transfer program.

Dual Credit: Completing this class with a C or better (following the dual credit guidelines) allows you to earn credit at Madison College for this course.

### **ADVANCED MATH**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of Algebra II or Intermediate Algebra - DC

Students who wish to continue their study of mathematics but do not wish to take Pre-Calculus have the option of taking Advanced Math. Students will work with a wide variety of topics necessary to prepare themselves for post secondary schooling. This class will use the graphing calculator to explore and enhance the understanding of mathematical relationships and concepts. Topics will include: Number Systems and Set Theory; Solving Equations, Inequalities, Matrices; Functions, and the nature of their graphs, trigonometry; probability and statistics; analytic geometry; parametric equations and vectors; polar coordinates; exponential and logarithmic functions; sequences and series; and limits. The course work will include assignments, problem sets, quizzes, tests, and projects. A TI-84 calculator is required for this course.

### **AP PRE-CALCULUS**

Grade Level: 11, 12 Credit: 1

Length: Full Year Prerequisite: Successful completion of Algebra II (with an "A" or "B") And consent of the instructor.

This course is intended to prepare students for Calculus. Students will study real numbers and complex numbers. Expanded skills will include vector algebra, functions including exponential and logarithmic functions, the need and use of the complex number, mathematical induction, circular trig functions and graphs, and the beginning of Calculus. Assignments, problem sets, quizzes, tests, use of calculators in graphing and problem solving, use of tables for trigonometry and logarithms. This course is required for AP Calculus. A TI-83+ or TI-84 calculator is required for this course.

### **AP CALCULUS AB**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of Precalculus (with an A or B)  
And the consent of the instructor

Students who take this course will be prepared to take the Advanced Placement Calculus AB test. The course reviews and uses major concepts of Algebra, Geometry, Analytic Geometry, Trigonometry, and functions. The two major topics are differential and integral Calculus. These allow students to analyze functions, solve related rate problems, find areas and volumes of two and three dimensional Geometry. A TI-84+ calculator is required for this course.

### **AP STATISTICS**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Successful completion of Algebra II and consent of instructor

Students who take this course will be prepared to take the Statistics Advanced Placement Exam. Anyone who has an interest in a career in the sciences, engineering, nursing, or the social sciences such as psychology should take this course. It will provide background and study methods to interpret and better understand data.

This is a college level course built around four main topics: exploring data, planning a study, probability as foundation for the procedures of statistics, and inferential reasoning. Students enrolled in AP courses may be asked to purchase AP study guide materials at the student's cost. The course will include assignments, labs, tests, methods to develop data, and working with samples from a population and a research project. A TI-84 calculator is required for this course.

### **COMPUTER SCIENCE 1**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Completed Algebra I

What is Computer Science and who should take it? Computer software impacts every aspect of our lives since every electronic device (like computers and smartphones) uses it to perform its tasks. This class is an introduction to software development. Students will learn how to write code, which means they will learn how to create the instructions that the computer understands. These instructions are at the foundation of every piece of software that runs on any computer or smartphone. Students will start by creating games in a 3D virtual world environment and then learn how to write code in Java. Who should take Computer Science? Anyone who wants to learn how to code, who plans to be an engineer or work in any technical field.

### **COMPUTER SCIENCE 2**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: A grade of 'C' or better in Computer Science 1

Students will extend their knowledge of coding in Java by learning how to create more complex programs. Students will improve their problem-solving skills and understanding of coding by writing numerous programs to solve a wide variety of problems. This class will prepare the student for AP Computer Science and Mobile App

Development.

### **AP COMPUTER SCIENCE**

Grade Level: 11, 12

Credit: 1

Length: Year

Prerequisite: A grade of 'C' or better in Computer Science 2 or consent of instructor.

This course will follow the AP College Board outline to prepare the student for the Advanced Placement Computer Science A exam. This is an advanced course in Java coding in which students will become fluent in programming. If you plan on becoming an engineer or work in any technical field, it is highly recommended that you take AP Computer Science. NOTE: Students who take this course and pass the AP Computer Science exam with a 3 or higher automatically receives \$1000 as part of the Ed Karrels APCS Scholarship.

### **MOBILE APP DEVELOPMENT**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Computer Science 2

Apps are everywhere! They are on smartphones, smart TV's, tablets, and other mobile devices. Students in the Mobile App Development course will learn how to design and develop mobile apps for Android devices. The apps that are created in this course can be uploaded to the Google Play store and subsequently be downloaded by anyone around the world. Students will be provided with a tablet if they don't have an Android phone.

# MUSIC

Course Name	Credit	9	10	11	12	Prerequisite
Blackhawk Chorale	1	X	X	X	X	None
Chamber Chorale	1		X	X	X	Permission of Instructor/Audition
South High Street Singers/Lexington Singers	1	X	X	X	X	Permission of Instructor/Audition
Concert Band	1	X	X	X	X	None
Orchestra	1	X	X	X	X	Permission of Instructor
Jazz Messengers	1	X	X	X	X	Permission of Instructor/Audition
Jazz Ambassadors	1			X	X	Permission of Instructor/Audition
Music Theory & Composition	½			X	X	Permission of Instructor
Intro to Guitar	½	X	X	X	X	None
Musical Theater & Small Ensemble	1		X	X	X	None

**Performances and concerts are considered a natural outgrowth of the curriculum and are required as a part of the final grade in all music course offerings.**

**For students who rent an instrument from the school district, the \$100 instrument rental fee will be charged through PowerSchool Registration in August.**

## **CONCERT BAND**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year Prerequisite: None

Concert Band studies and performs a variety of music that is a multifaceted representation of styles and periods. Students are encouraged to expand their musical horizons. Band begins with summer marching band taking place during summer school. Please make it a point to enroll in summer school prior to the end of the current academic year. The school year will begin with marching band, which is a required part of the class and after about a quarter will transition quickly into the concert band setting. The Concert Band will be divided into two ensembles.

The Wind Ensemble is intended for a more mature experienced musician ready for a deeper layer of musical intelligence. The Symphonic Band is

intended for younger musicians looking to add upon and expand their musical vocabulary. Individual improvement and musical growth will be stressed as a part of the class. Instrumentation: Piccolo, Flute, Oboe, Bassoon, Clarinet, Bass Clarinet, Alto Saxophone, Tenor Saxophone, Baritone Saxophone, Trumpet, Horn, Trombone, Euphonium, Tuba, String Bass, and Percussion.

## **JAZZ MESSENGERS**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Permission of Instructor/Audition

Jazz Messengers is the entry level jazz ensemble at Fort Atkinson. It is recommended for all Freshman and Sophomores interested in Jazz. This class is open to all interested instrumental music students. The course of study will encompass learning and

performing the various styles of Jazz and World music as well as an emphasis on improvisation and composition. Instrumentation: Percussion, Alto Saxophone, Tenor Saxophone, Baritone Saxophone, Trumpet, Trombone, Piano, String Bass, Guitar & Percussion.

### **JAZZ AMBASSADORS**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Permission of Instructor/Audition

The Jazz Ambassadors strive to reach a deeper level of musical connection through improvisation and extended jazz techniques. Jazz Ambassadors is designed for more experienced students and requires instructor's approval. The course of study will encompass learning and performing various styles of Jazz and World music as well as an emphasis on improvisation and composition. Instrumentation: Percussion, Alto Saxophone, Tenor Saxophone, Baritone Saxophone, Trumpet, Trombone, Piano, String Bass, Guitar & Percussion.

### **ORCHESTRA**

Grade Level: 9,10,11,12

Credit: 1

Length: Full Year Prerequisite: None

Prerequisite: Permission of Instructor/Audition

The Orchestra offers opportunities to study and to perform a variety of musical literature of intermediate and advanced levels. The focus of the Orchestra will be to refine existing skills and to develop mature performance skills while gaining a broad musicianship. In addition to performing, Orchestra students will explore a variety of music periods and styles, music history and theory, composing, conducting, and aural skills-components that will add to the understanding, appreciation, and enjoyment of music. There are two sections, Philharmonic Orchestra and Symphony Orchestra, each designed to meet the needs of every student musician.

### **BLACKHAWK CHORALE**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

The Blackhawk Chorale performs music from all periods of music history stressing that of the major choral composers. The focus of Blackhawk Chorale will be to refine existing skills and to develop mature performance skills while gaining a broad musicianship. The choir participates in special observation days and concert events as well as solo-ensemble festivals at the district and state levels.

### **CHAMBER CHORALE**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Permission of Instructor/Audition

The Chamber Chorale, is an advanced ensemble with its requirements of interest and excellence in the performance of music of all types, performs music from all periods of music. The focus of Chamber Chorale will be to refine existing skills and to develop mature performance skills while gaining a broad musicianship. Individual improvement will be stressed. Performance participation and evidence of learning regarding aspects of music theory are assessed as part of the final grade.

### **MUSICAL THEATER & SMALL ENSEMBLE**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

This course is designed for students who are looking to explore solo/small group musical theater vocal performance. We will learn musical theater vocal technique, delve into analysis of music and lyrics, and practice communicating truthful, authentic choices based on the analysis. Students will also study musical theater as a historical topic, including shows and composers, as well as the cultural impacts of the art form.

**SOUTH HIGH STREET  
SINGERS/LEXINGTON SINGERS**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Permission of Instructor/Audition

The South High Street Singers and Lexington Singers are vocal ensembles with a special emphasis on performance. The purpose of this organization is to fulfill the needs for those students who desire and thrive on challenge, for those whose more advanced vocal ability require a more advanced group to increase personal achievement for those who desire a richer and varied musical experience beyond regular concert choir literature. South High Street Singers participate in a number of performances and competitions throughout the year and are a requirement towards the grade in this class. Lexington Singers emphasis is on performance. Exposure to contemporary forms of music is the course of study for both Show Choirs. Styles of dance are also incorporated in the class. Students are responsible for a \$300 fee which is due the day of auditions. Other expenses include overnight trips which are for members of the South High Street Singers, combo and crew members. Some rehearsals are scheduled outside the regular school day and are required.

**INTRO TO GUITAR**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisites: None

Introduction to Guitar is a course designed for students who want to learn a new instrument that does not fit the traditional band/orchestra mold. This is a beginning guitar class. Students will play guitar every day. In addition you will learn how to tune a guitar, how to read music, get started with basic equipment, read chords, engage in an introduction to music theory, and play folk and modern music both as a melody and an accompaniment.

**Students may use their own guitar, or for students needing a guitar, purchasing/ financing options will be available.**

**MUSIC THEORY & COMPOSITION**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Permission of Instructor

A course emphasizing the learning and understanding of the fundamentals of music composition and structure. Included in the course are units on basic and advanced music theory. Composition using computer technology and MIDI concepts will be utilized the second half of the semester.

# PHYSICAL EDUCATION

Physical Education is required freshman, sophomore, and junior years in order to meet the Department of Public Instruction standard of 1.5 credits of physical education earned over three separate years during high school. Physical Education is not required senior year, however, it can be taken as an elective that year or to make up for a missed previous year of high school physical education.

Course Name	Credit	9	10	11	12	Prerequisite
<b>Physical Education 9</b>	½	X				None
<b>Wellness</b>	½	X	X	X	X	None
<b>Competitive games</b>	½		X	X	X	None
<b>Lifeguard Training</b>	½		X	X	X	Instructor Consent
<b>Sports Officiating</b>	½			X	X	10th grade w/ instructor consent
<b>Advanced Strength Training &amp; Conditioning</b>	½	X	X	X	X	

## PHYSICAL EDUCATION 9

Grade Level: 9

Credit: ½

Length: Semester

Prerequisite: None

This course will expose students to a wide variety of activities that will promote lifetime fitness and recreational opportunities. The course will focus on the basic fundamentals, skills, rules and etiquette necessary to be successful in each activity. Students may be introduced to the following activities: softball, speedball, biking, badminton, volleyball, lacrosse, tennis, rollerblading, floor hockey, frisbee golf, weight training and a variety of fitness activities.

## COMPETITIVE GAMES PHYSICAL EDUCATION

Grade Level: 10, 11, 12

Credit ½

Length: Semester

Prerequisite: None

This course is designed to cover all areas of physical education and place an emphasis on competitive games. Students will also engage in fitness activities, team sports, individual sports, and aquatics. Students will have a strong understanding of how movement in a variety of areas will lead to a healthy lifestyle.

### **WELLNESS PHYSICAL EDUCATION**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This course will allow students to experience new and current exercise based activities that include: Yoga, Pilates, biking, step aerobics, water fitness, tone and sculpting, heart rate based exercise activities, and interval training. Students will participate in different fitness activities that will help them reach personal goals. Students will analyze their health and fitness needs, experience techniques to better manage their stress and design a personal fitness program to meet their goals. Students will ultimately demonstrate the importance of living a healthy lifestyle. Each student will utilize an IHT HR monitor to gather HR data daily during their respective class. The data will be analyzed over the course of the semester to help students know how to move in and out of various HR ranges.

### **ADVANCED STRENGTH AND CONDITIONING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None



This is a ground based movement course designed to meet the need for a higher level of development within human performance. This course will feature highly structured workouts with regard to workout intensity and exercise frequency. Explosiveness training and speed improvements will be included in this course.

**Freshmen prerequisite** - Participate in Summer Speed, Strength, and Conditioning or Instructor approval

### **LIFEGUARD TRAINING**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Instructor consent

This course is designed for those students who would like to become a certified American Red Cross lifeguard. Students will be certified as a professional rescuer, AED provider, and a lifeguard with current First Aid. Students must be able to pass a swim test, water tread, and brick retrieve to successfully be placed into the course. The cost of the course is \$128 for a textbook, mask, and other materials. This class counts towards the Physical Education graduation requirement. Students must gain instructor's consent to be placed in the course.

### **SPORTS OFFICIATING**

Grade Level: 11, 12 (10 with instructor approval)

Credit: ½

Length: Semester

Prerequisite: None

Sports Officiating is a Physical Education Elective course that focuses on personal leadership, personality traits, conflict resolution, First Aid/CPR training, and the philosophy of being an official, umpire, and/or referee for athletic contests. This course will cover WIAA certifications for one sport of the student's choosing per season (fall/winter/spring). Each student will become certified and take the WIAA Sports Officiating Exam for these sports. In addition, students will participate in class discussions and read and discuss articles on being an official/referee/umpire, coach, player, and spectator/fan. This course does not count towards the graduation requirement for Physical Education.

# SCIENCE

Course Name	Credit	9	10	11	12	Prerequisite
REQUIRED SCIENCE FOUNDATIONS COURSES for ALL STUDENTS						
Chemistry I	½	X		Only applicable for credit recovery		None
Physics I	½	X				None
Biology I	½	*	X			Chemistry I & Physics I
Earth Science I	½	*	X			Chemistry I & Physics I
*Concurrent grade 9 enrollment is permissible with freshman courses to accelerate access to advanced science coursework.						
BIOLOGY OFFERINGS						
Genetics	½		*	X	X	Biology I , but can be taken concurrently
Cell Biology	½		*	X	X	Biology I , but can be taken concurrently
Biotechnology	½			X	X	Biology I, Chemistry II, & Genetics (can be taken concurrently)
Human Anatomy and Physiology	1			X	X	Biology I & either Cell Biology or Genetics. Cell Biology is recommended over Genetics. Chemistry II is recommended.
AP Biology	1			X	X	Biology I, Genetics and Chemistry II Required Cell Biology and Accelerated Chemistry II Recommended. Instructor Recommendation Required if Missing Prerequisite(s)
*Concurrent enrollment with required Grade 10 courses permissible to accelerate access to advanced science coursework.						
CHEMISTRY OFFERINGS						
Chemistry II	1		X	X	X	Chemistry I
Accelerated Chemistry II	1		X	X	X	Chemistry I This accelerated course provides content rigor sufficient to prepare students for AP Chemistry and AP Biology.
AP Chemistry	1			X	X	Accelerated Chemistry II OR Instructor Recommendation
EARTH SCIENCE OFFERINGS						
Astronomy	½		X	X	X	None
Geology	½		X	X	X	None
ENVIRONMENTAL SCIENCE OFFERINGS						
Ecology	½		X	X	X	None
AP Environmental Science	1			X	X	Completion of required 9th and 10th grade science classes Chemistry II recommended

<b>PHYSICS OFFERINGS</b>						
Physics II	1			X	X	Physics I and Algebra II required
Practical Physics	1		X	X	X	Physics I required
AP Physics	1			X	X	Physics I and Physics II required Instructor recommendation required if missing prerequisite(s)
<b>SPECIAL OFFERINGS</b>						
Medical Occupations	½		*	X	X	Biology I
Electronics	1		X	X	X	Algebra I Recommended
Independent Study	½			X	X	Instructor Recommendation Required

### ***REQUIRED SCIENCE FOUNDATIONS COURSES FOR ALL STUDENTS***

#### **CHEMISTRY I**

Grade Level: 9

Credit: ½

Length: Semester

Prerequisite: None

Chemistry I is a required 1 semester science course that provides foundational learning in chemistry. Students in this course will deepen and advance skills in data collection and reporting as well as making scientific observations. Units in the study of matter, atomic theory, and chemical reactions will be provided to prepare students for future chemistry coursework.

#### **PHYSICS I**

Grade Level: 9

Credit: ½

Length: Semester

Prerequisite: None

Physics I is a required 1 semester science course. Content covered during the semester will include number sense and reporting in laboratory settings. Study will be provided in the area of kinetics including speed, velocity and acceleration, conservation laws of mechanical energy and momentum and the study of waves. This course will provide the foundational learning for future physics coursework.

#### **BIOLOGY I**

Grade Level: 9 or 10

Credit: ½

Length: Semester

Prerequisite: None

Biology I is a required 1 semester science course. Biology is the study of life in all its wondrous forms and interconnections. This course provides the foundational learning in biological sciences that will prepare students for future courses and life as a scientifically literate member of society. In this course, students will develop an understanding of the essence of life including how earth developed its great biodiversity, how life obtains and uses energy, and how life maintains the delicate and awe inspiring balance that is nature. This course may be taken during the freshman year with Physics I and Chemistry I to allow students to progress to upper level science classes faster..

#### **EARTH SCIENCE I**

Grade Level: 9 or 10

Credit: ½

Length: Semester

Prerequisite: None

Earth Science I is a required 1 semester science course. Content covered during the semester will focus on the large-scale interactions between the

geosphere, atmosphere, hydrosphere and humans. Students will learn how life and earth systems are connected to one another and the importance of sustainable use of natural resources. Special attention will be paid to the carbon cycle and its role in climate change. This course may be taken during the freshman year with Physics I and Chemistry I to allow students to progress to upper level science classes faster.

## ***BIOLOGY OFFERINGS***

### **CELL BIOLOGY**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Biology 1

Cell Biology is a 1 semester elective course. We will dive deep into the study of cell structure, function and communication. We will relate cell function to various body systems including the immune system and infectious diseases. We will also explore comparative anatomy and systems through multiple dissections. For students planning to attend a four-year college, it is highly recommended to take at least one semester of high school biology beyond the Biology I course.

### **GENETICS**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Biology I

Genetics is a 1 semester elective science course. This is one of the most important branches in modern biology. This course will delve into the structure of DNA, how it is able to be passed on to new cells, control heredity, and contribute to evolution on a molecular level. We will also discover the mechanisms that allow it to control how we grow and develop in our own lifetime and over the countless generations of life that came

before us. For students planning to attend a four-year college, it is highly recommended to take at least one semester of high school biology beyond the Biology I course.

### **BIOTECHNOLOGY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Biology I, Chemistry II, and Genetics (may be taken concurrently)

This course covers basic concepts and techniques necessary to work in a biotechnology laboratory setting. It will give students an awareness of career opportunities and the skills needed for careers in biotechnology. The laboratory work will introduce students to proper laboratory techniques and the operation of instruments used in biotechnology labs. Career choices for students taking this class might be: biotechnology, lab technician in a crime lab or agribusiness corporation, technician at a research lab, or a pharmaceutical corporation. Labs could include: Restriction Enzyme Analysis, Electrophoresis, Purification of DNA, Transformation, Polymerase Chain Reaction PCR.

### **HUMAN ANATOMY AND PHYSIOLOGY**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Biology I AND either Cell Biology OR Genetics (Cell Biology is recommended over Genetics)

Chemistry II Recommended

In this course we will delve into the mysteries of the human body and develop a deep appreciation for and understanding of how our bodies work. We will explore the structures of the human body; their names, locations and how they work together. As we work through all 11 body systems we will investigate how the structures and chemicals of the body function to maintain our existence. This

course is highly recommended for students interested in going into any biological science, any medical/health career, veterinary services, or who just enjoy the subject. This course is great preparation for both those going on to a 2-year program such as Madison College (MATC) or another 4-year college. This course involves many hands of experiments, dissections, and bioengineering.

### **ADVANCED PLACEMENT BIOLOGY**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite:

Biology I, Genetics, and Chemistry II Required  
Cell Biology and Accelerated Chemistry II  
Recommended.

The Advanced Placement course is equivalent to an introductory college Biology course for Science majors. The course is designed to be taken by students with a special interest and high motivation for an in-depth study of the biological sciences. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills to deal critically with the rapidly changing science of Biology. This course requires a high level of preparation and a commitment to excellence. Students who are not prepared for a rigorous course should not take Advanced Placement Biology. This course will involve more time and effort than other courses, the textbook is an advanced one, and good reading skills are required. Students are expected to take the Advanced Placement Exam at the conclusion of the course. Students will be responsible for the cost of the exam. Fee waivers are available for students who qualify for free/reduced lunch.

## ***CHEMISTRY OFFERINGS***

### **CHEMISTRY II**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Chemistry I

Chemistry is the branch of science which investigates the composition of matter, the reactions that occur, the energy changes which take place and the theories which govern them. An understanding of chemistry can help you better understand how products we use everyday are made and how they work - everything from antacid tablets to gasoline. This course is intended for students planning to attend a four-year college. It is highly recommended to take at least one year of high school chemistry.

### **ACCELERATED CHEMISTRY II**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Chemistry I

Accelerated Chemistry II has the same core content as Chemistry II. Student's will be challenged by the course's faster pace and independent nature aligned to preparation for AP Chemistry. Learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. You'll do hands-on lab investigations and use chemical calculations to solve problems.

Those individuals who intend to further their education beyond high school should give consideration to enrollment in Accelerated Chemistry II, especially those whose interests lie in the fields of nursing, engineering, teaching, medicine, pharmacy, metallurgy, genetic research, agriculture, etc.

For students planning to attend a four-year college, it is highly recommended to take at least one year of

high school chemistry beyond the Chemistry I course. This course is a prerequisite for AP Chemistry and strongly recommended for AP Biology.

### **ADVANCED PLACEMENT CHEMISTRY**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Chemistry II OR Accelerated Chemistry II

Challenge yourself by taking a college level chemistry course while still in high school. Learn about the fundamental concepts of advanced chemistry including structure and states of matter, intermolecular forces, and reactions in this rigorous course. You'll do complex hands-on lab investigations and use chemical calculations to solve advanced scientific problems.

For students planning to attend a four-year college, successful completion of this course, including a score of 3 or higher on the AP Chemistry exam may result in the awarding of college credit within postsecondary college or university programming. This course is aligned to the AP Chemistry course as outlined by the College Board.

## ***EARTH SCIENCE OFFERINGS***

### **ASTRONOMY**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Astronomy is a 1 semester elective science course. The first part of the course will focus attention on our Solar System. Students will learn about Kepler's 3 Laws of Planetary Motion, Earth-Moon-Sun geometry, characteristics of the Solar System, and how our Sun produces energy. The second half of the course will look at different classes of stars in the universe, how stars change

over time, our changing model of the universe, and the Big Bang model.

### **GEOLOGY**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Geology is a 1 semester elective science course. Students will learn how the major geologic forces have shaped Earth and society. Class time will be spent in the lab learning how to classify earth materials and exploring how we can use data from earth materials to determine how the Earth has changed over time. Course time will be devoted to analyzing how the availability of earth resources has impacted human society.

## ***ENVIRONMENTAL SCIENCE OFFERINGS***

### **ECOLOGY**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Ecology is a course designed to make students aware of the environment around them. This course will allow students to examine the seasonal changes in their local ecosystem through personal experiences, hands-on learning, field trips, guest speakers, and student choice projects. Students will be exploring the outdoors frequently throughout the semester in all weather (sunny, rainy, snowy, cold, etc.). Topics covered include local species identification, phenology (seasonal natural events), forestry, water quality, conservation and wildlife management, invasive species, biodiversity, and current environmental issues.

## **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Completion of 9th and 10th grade science requirements

Chemistry II recommended

In this college level course students study how science interacts with ethics and application. A.P.E.S. is the study of the natural sciences in a way that always includes consideration of people and how they have influenced the systems under examination. This class will include aspects of geology, ecology, earth and atmospheric science, population dynamics, geography, pollution and policy. Students will find that APES brings to the table a wide menu of study including biomes, landscapes, biodiversity, law, food, agriculture, pests, health and politics. Man's use of our natural resources and preservation of those resources is a key component in areas such as wetland, forests and prairies. We investigate the impact of toxic and hazardous waste as man attempts to become sustainable. Students enrolled in AP courses may be asked to purchase AP study guide materials at the student's cost.

## ***PHYSICS OFFERINGS***

### **PRACTICAL PHYSICS**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Physics I

Practical Physics is an activity-based physics course in which students are challenged to solve a problem that is identified at the beginning of each unit. Students will learn to apply the engineering design process in the areas of motion, energy, and materials science to solve those problems. Practical Physics is generally not recognized by colleges for

science admissions requirements. However, it does count toward one of the required three credits of science for high school graduation.

### **PHYSICS II**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Physics I and Algebra II

Physics II provides opportunity for deeper physics knowledge and experiences building upon the Physics I course. Engage in deeper learning about the collection and reporting of data, motion and velocity, vectors, energy and momentum and waves. Those individuals who intend to further their education beyond high school should give consideration to enrollment in Physics II, especially those whose interests lie in the science career pathways. For students planning to attend a four-year college, it is highly recommended to take at least one year of high school physics while in high school.

### **ADVANCED PLACEMENT PHYSICS**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Physics II

Challenge yourself by taking a college level physics course while still in high school. AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activities, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves.

For students planning to attend a four-year college, successful completion of this course, including a score of 3 or higher on the AP Physics exam may result in the awarding college credit within postsecondary college or university programming.

This course is aligned to the AP Physics course as outlined by the College Board.

### ***SPECIAL OFFERINGS***

#### **MEDICAL OCCUPATIONS**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Biology I

This course will give students an awareness of career opportunities and the skills needed for careers in allied health. Students will have the opportunity to explore dozens of different career options in the allied health field through field trips, guest speakers, job shadowing, and the use of Xello. The laboratory work will introduce students to proper laboratory techniques and the operation of instruments used in allied health clinics and labs. In addition to career options, the curriculum covers systems of the human body and medical terminology. This is an excellent class to take before enrollment in the certified nurse assistant class offered through MATC-Fort Atkinson. This course is designed to prepare students for entry level employment and/or a two- or four-year college program in the field of allied health. Career choices for students taking this class might be: one year of school to become a surgical technician or 12 years to become a surgeon; two-year or four-year RN; dental assistant, dental hygienist or dentist; medical assistant, physician assistant or physician; respiratory therapist, physical therapist, medical lab technician at a hospital or clinic, radiology technician, dietetic technician or dietitian, and many others. This course does not meet Science credit requirements for admission to a UW system institution. This course is recommended for those students planning on taking the certified nurse assistant course through Madison College.

#### **ELECTRONICS**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Physics I (Algebra I recommended)

We all use electronic equipment everyday - whether we think so or not. Because of this, a basic understanding of how electricity and electronics works is vital to understanding how our world works. Most of the time in electronics is spent in the lab investigating principles like Ohm's Law, capacitance, and integrated circuits. Students will also learn about basic schematic diagrams and components like resistors, capacitors, and transistors.

#### **INDEPENDENT STUDY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Instructor Recommendation Required

Science begins when people make observations of events and ask questions. Students identify and select a topic in their area of interest. Book research is compiled from primary sources and a hypothesis. The purpose of the research projects are to allow students the opportunity to "do" science. The goal of the research project will be to enter local, regional and state science fairs such as Fort Atkinson Science Fair, UW Junior Science, Engineering and Humanities Symposium, and the Science Congress. Students may also choose to establish mentorships with college professors at area universities in order to extend their research experiences. Research projects provide an excellent opportunity for talented and motivated students. Students will be rewarded not only by the knowledge and experiences gained, but also by the cash prizes, awards and trips that are offered by the various competitions

# SOCIAL STUDIES

Course Name	Credit	9	10	11	12	Prerequisite
Global Connections 9	1	X				None
AP Human Geography	1	X	X	X	X	None
U.S. History 10	1		X			None
AP U.S. History	1		X	X	X	None
AP Psychology	1			X	X	None
Ancient & Medieval History	½			X	X	None
Ethnic Studies	½			X	X	None
History of Warfare	½			X	X	None
Modern World History	½			X	X	None
Psychology	½			X	X	None
Sociology	½			X	X	None
Today's World	½			X	X	None
Wisconsin Story	½			X	X	None
Women's Studies	½			X	X	None
AP Microeconomics	½				X	None (Suggested A in Geometry)
AP Macroeconomics	½				X	None
Economics	½				X	None
Government	½				X	None
Government-Honors	½				X	None

## **GLOBAL CONNECTIONS 9**

Grade Level: 9

Credit: 1

Length: Full Year

Prerequisite: None

Global Connections 9 is a class for students to develop an understanding of how other parts of the world live and interact, with an emphasis on the eastern hemisphere. Students will investigate a plethora of topics, how these topics impact individual countries, and how these topics influence the manner in which other countries interact. These topics include geography, important events, culture, environmental issues, demographics, government, and economics. The class improves students' skills for school and work environments in speaking and listening, goal setting, organization, time

management, reading, and writing

## **ADVANCED PLACEMENT HUMAN GEOGRAPHY**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

This course deals with patterns of global cultural systems and their impact on the earth. Human Geography includes an analysis of rural and urban economics, politics and boundaries, population, urbanization, religion, and linguistics. Theoretical and mathematical models will be used to understand human behavior and interactions with the environments in which we live. Students are able to take the AP Exam in May to potentially earn

college credit for this course.

**Freshmen can take this course in place of Global Connections 9. Strong reading and writing skills and an independent work ethic are required, as this is a college level course.**

### **U.S. HISTORY 10**

Grade Level: 10

Credit: 1

Length: Full Year

Prerequisite: None

The U.S. History course will examine the major events and famous people that have shaped U.S. society over the last century. Main themes include politics, social, and economic trends from the times of Imperialism through the current day.

### **ADVANCED PLACEMENT U.S. HISTORY**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Recommended 3.25 GPA

This class is designed to prepare students for the AP exam in U. S. History. The course is an in-depth study of U. S. History taught at an accelerated pace. Students will utilize several learning techniques, many of which are self directed. Reading and writing skills are emphasized. In order to be successful in Advanced Placement U.S. History, students need to be highly motivated and self-directed. It is strongly recommended that students have good writing skills and the ability to spend approximately five hours a week working outside of class.

### **ADVANCED PLACEMENT PSYCHOLOGY**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Recommended 3.25 GPA

This course introduces students to the systematic and scientific study of behavior. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields

within psychology. Students will also learn about the methods psychologists use in their everyday practices. Students will be required by district policy to take the national AP exam in May and possibly receive three college credits.

### **ANCIENT AND MEDIEVAL HISTORY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Ancient & Medieval History is designed to acquaint students with the historical background of our present day world. Course content includes non-Western and Western civilizations prior to the 1400's, including Ancient Greece and Rome, China, and Medieval Europe. Instruction highlights the economic, political, and social aspects of our emerging world. Emphasis is placed on primary source work.

### **ETHNIC STUDIES**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This course will cover the history of various racial and ethnic groups such as Asian Americans, African Americans, Latinos, Middle-Eastern and Muslim Americans, Native Americans, and White Ethnics. Study will include reasons they came to the U.S., how they interacted with the mainstream culture, the ways in which they contributed to society, unique characteristics they held onto, and the ways in which they were not a full and equal part of society, and actions taken to be treated more equally. Contemporary issues regarding race and ethnicity such as immigration, racial profiling, affirmative action, and Indian gaming will also be covered.

### **HISTORY OF WARFARE**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This class will look at how warfare has changed from ancient times to the present day. Students will have the opportunity to study and act out the battle tactics, weapons, and famous people of the many conflicts spanning human history. Topics include the root causes of war, the daily lives of fighting men and women, the evolution of military equipment, and the reasons why battles are won or lost. Active participation is a big part of assessment for students in this class.

### **MODERN WORLD HISTORY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Modern World History is designed to acquaint students with the historical background of our present day world. Course content includes non-Western and Western civilizations since the 1400's. Instruction highlights the economic, political, and social aspects of our emerging world. Emphasis is placed on primary source work.

### **PSYCHOLOGY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Psychology will help students understand why they think, feel, talk and act as they do. The course explores the ways various psychologists explain human behavior. As a result of dealing with these explanations, students will be better able to understand themselves and others.

### **SOCIOLOGY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None;

Since Sociology is the study of human society and social behavior, sociologists focus on group behavior to understand how people relate to one another and influence each other's behavior. The intent of this course is to introduce students to topics such as social class, adolescence, deviance, culture, personality, race, and ethnicity. Students are invited to think like a sociologist by making connections between themselves and society, understanding the reasons for social problems, and considering solutions to societal issues. Discussion is an important element of this student participation class.

### **TODAY'S WORLD**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This course covers current events that appear most often in the news and are important either locally, state wide, nationally, or globally. Topics covered can be both teacher and student selected. Students will stay informed of what is happening in the news. Student participation in discussion is an essential part of this course.

### **WISCONSIN STORY**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This course is a survey of Wisconsin based on a variety of aspects of the state's past and present, including: Native American perspective, geography and geologic influences, economics, political development, the role of conflict and war, immigration, and current events. Students will develop research and writing skills as well as technological and group presentation skills. They will have an understanding of their state history as

well as factors affecting the community in which they live.

### **WOMEN'S STUDIES**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: None

Women's Studies looks at issues that affect women past and present. We will study the traditional and non-traditional roles that women have had in U.S. and world culture and society from ancient times through women's rights movements in the 19<sup>th</sup> and 20<sup>th</sup> centuries. We will also discuss current issues that face women worldwide, human trafficking, advertising and body image, domestic abuse, and economic gaps between genders. Student participation in discussion is an important part of this course.

### **ECONOMICS**

Grade Level: 12

Credit: ½

Length: Semester

Prerequisite: None

This course will teach students theoretical concepts and basic applications of economics to help them become informed consumers, producers, and citizens in today's world, with an emphasis on the American Free Enterprise System. At the microeconomic level, students will investigate the decision making by individuals and business firms in the marketplace. In macroeconomics, students will study the national economy and the role of governments as they attempt to foster growth and stability.

### **ADVANCED PLACEMENT MICROECONOMICS**

Grade Level: 12

Credit: ½

Length: Semester (second only)

Prerequisite: None

AP Microeconomics is a single-semester college-level course. Students will gain an understanding of the economic principles that drive

the decisions of individuals and business firms within a free market system. Students will describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy.

### **ADVANCED PLACEMENT MACROECONOMICS**

Grade Level: 12

Credit: ½

Length: Semester (second only)

Prerequisite: None

AP Macroeconomics is a single-semester college-level course. Students will gain an understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

### **GOVERNMENT**

Grade Level: 12

Credit: ½

Length: Semester

Prerequisite: None

This class deals primarily with the structure and functions of the national and state governments of the United States. Included is a study of the development of our political system, elections, Congress, the Presidency, and the Federal Court system. The structure and function of Wisconsin state and local government is also studied. Emphasis will be placed on government processes as they relate to society today.

## **GOVERNMENT – HONORS**

Grade Level: 12

Credit: ½

Length: Semester

Prerequisite: None

This course introduces students to the history, structure, and systems of the U.S. political process. Students will be exposed to the functions of local, state, and federal government. Students will also gain an understanding of citizenship and the voting and electoral process. A higher level of participation and performance is expected in the Honors level course.

# SPECIAL EDUCATION

The Special Education Department at FAHS is composed of both certified teaching staff and special education assistants who support student learning across all academic areas. Students who are identified as eligible for services have an Individual Educational Program (IEP) team which includes the student and his/her parents. The team develops a plan and services are provided to the student on a continuum of levels from consultative support to specially designed and delivered instruction.

## Special Education Vision and Mission Statement:

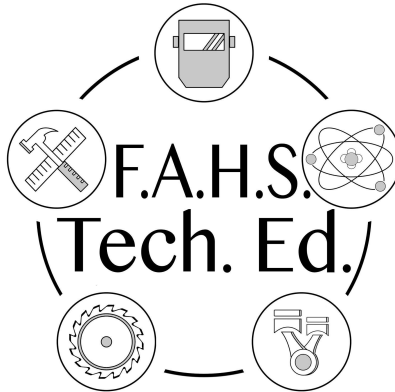
The mission of the special education department is three-fold: (1) to provide specially designed curriculum when necessary, as well as modifications, accommodations and/or related services for students to be successful in their general education curriculum; (2) to help students and families think about life after high school and set long-range goals; and (3) to design the high school experience to ensure that students gain the skills and connections they need to achieve those goals.

## Special Education provides opportunities for students to:

- Increase academic skills by focusing on individual learning abilities.
- Make progress in the general education curriculum through modifications, accommodations and/or related services.
- Help student and family think about the future and consider what students want to do after high school.
- Provide post-secondary and career exploration opportunities prior to graduation through curriculum and hands on experiences.
- Jointly plan for how to make the high school experience relate directly to student dreams and desired outcomes.
- Help students and families make connections to services they will need after high school.
- Increase opportunities for student success once leaving school.

# TECHNOLOGY EDUCATION

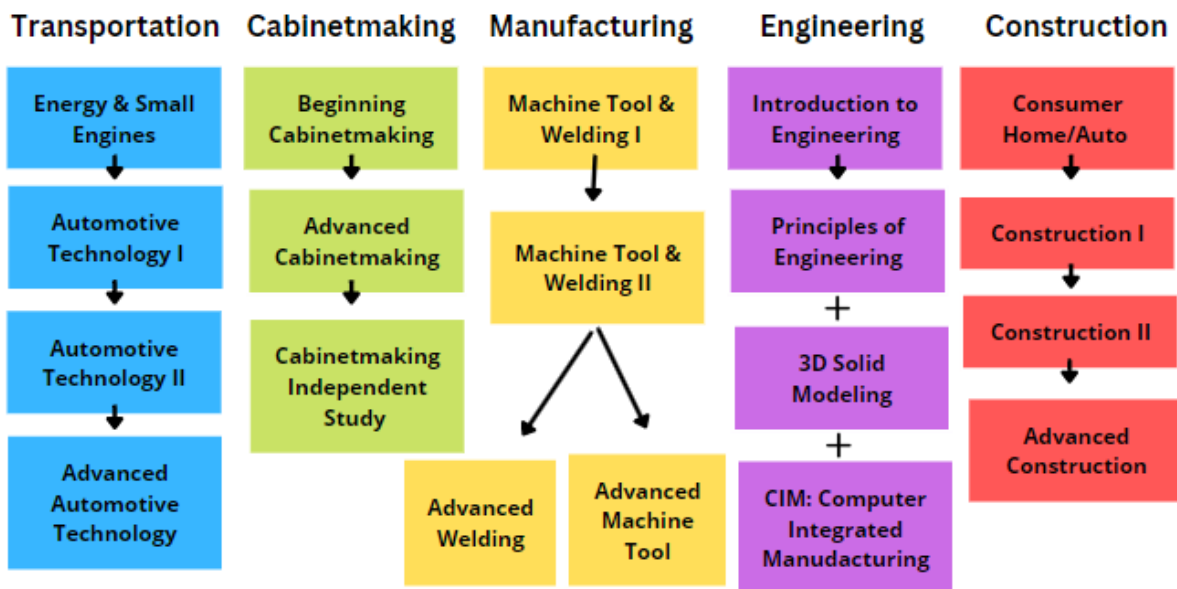
"Providing Life Skills and Career Readiness"



In today's rapidly changing world it is imperative to provide students with learning experiences that will allow them to keep pace with our rapidly changing technological society. Our focus is to design a curriculum and provide lifelong learning skills which will incorporate all curricular disciplines and provide all students with relevant, career-focused education to become capable and productive adults.

The FAHS Technology Education Department offers a sequence of courses that focus on five areas or career pathways of study. The pathways will provide students with a solid set of knowledge, experiences, and skills that can serve as a foundation for careers in the areas of Manufacturing, Automotive, Construction, Cabinetmaking and Engineering.

## PATHWAYS



## TECHNOLOGY EDUCATION

### Manufacturing

Course Name (DC) = Dual Credit Course	Credit	9	10	11	12	Prerequisite
Machine Tool & Welding I	½	X	X	X	X	None
Machine Tool & Welding II	½		X	X	X	Machine Tool & Welding I
Advanced Machine Tool - DC	½			X	X	Machine Tool & Welding I; Machine Tool & Welding II
Advanced Machine Welding - DC	½			X	X	Machine Tool & Welding I; Machine Tool & Welding II
Advanced Machine Tool & Welding II Independent Study	1				X	Machine Tool & Welding I; Machine Tool & Welding II; Advanced Tool, and Advanced Welding.
Manufacturing Youth Apprenticeship	½ - 4			X	X	Machine Tool & Welding I; Enrollment of Machine Tool Welding II; Instructor Consent

### Automotive/Transportation

Energy & Small Engines	½	x	x	x	x	None
Automotive Tech I	½		x	x	x	Energy & Small Engines required
Automotive Tech II	1			x	x	Energy & Small Engines and Auto I required
Advanced Automotive Systems	1				x	Energy & Small Engines, Auto I, and Auto II required
Automotive Youth Apprenticeship	½-3			x	x	Auto I, enrollment in Auto II, and Instructor Consent

### Cabinetmaking

Beginning Cabinetmaking	1/2	x	x	x	x	None
Advanced Cabinetmaking	1		x	x	x	Beginning Cabinetmaking
Independent Study Cabinetmaking	1			x	x	Advanced Cabinetmaking

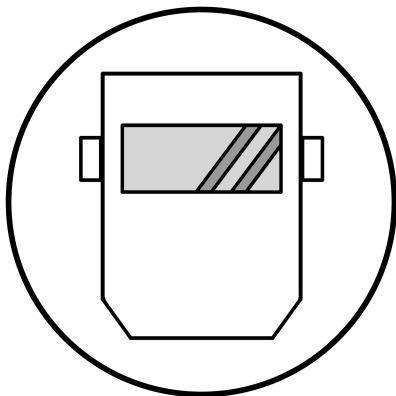
### Engineering

3D Solid Modeling	1	x	x	x	x	None
CIM: Computer Integrated Manufacturing	1	x	x	x	x	None
Introduction to Engineering	1	x	x	x	x	None
Principles of Engineering	1		x	x	x	Successful completion of Introduction to Engineering.

### Construction

Consumer Care: Home & Auto	½	x	x	x	x	None
Construction I	½	x	x	x	x	Consumer Home and Auto
Construction II	½		x	x	x	Successful completion of Construction I.
Advanced Construction	½			x	x	Construction I & Construction II
Construction Youth Apprenticeship	½-3			x	x	Construction I, enrollment in Construction II and Instructor approval.

# Manufacturing



## **MACHINE TOOL & WELDING I**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This introductory course in metalworking will orient students to the skills and knowledge necessary to understand and pursue higher levels of skills in the world of manufacturing. This course orients students to a variety of processes:

Unit:

- Layout/measurement/blueprint reading (toolbox)
- Forming/cutting (lathe)
- Molding (foundry)
- assembling (GMAW, SMAW and OAW welding)

Manufacturing is a growing profession in Jefferson County and throughout the United States. Skilled workers are needed to fill these positions. Note: Students are to wear safety glasses which are the fiscal responsibility of the student.

## **MACHINE TOOL & WELDING II**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Successful completion of Machine Tool and Welding I or Instructor Consent.

This activity-based course provides a more in-depth

approach to materials, processes and industrial design systems. Students will build upon concepts and skills acquired in Introduction to Industrial Design (prerequisite course) to learn about:

Units:

- Advanced blueprint reading (sawed block)
- Advanced forming/cutting (lathe)
- Advanced molding and assembling (C-Clamp)
- Welding Processes (GMAW, GTAW, FCAW and SMAW)

Examples of some projects include:

C-clamps, metal forming of sculptures, advanced welding positions (overhead, vertical up and down). Note: Students are to wear safety glasses which are the fiscal responsibility of the student.

## **ADVANCED MACHINE TOOL**

Grade Level: 11, 12

Credit: ½ (4 Credits MATC)

Length: Semester

Prerequisite: Successful completion of Machine Tool and Welding I, Machine Tool and Welding II, or Instructor Consent



This course offers students an opportunity to learn operations of engine lathe, cnc mill and other metal working tools. The class involves CAD/CAM, precision machining, precision measuring, and layout. Projects will involve designing and making metal projects using the machines in the shop. In addition, This class will teach how to produce lathed parts to blueprint specifications, and produce vertical milling machine parts to blueprint specifications. Students will be introduced to the fundamentals of metal cutting and forming. Students will create assemblies from industrial drawings conforming to industry standards. Emphasis will be placed on the safety, basic layout techniques, bending calculations, and operation of manual and mechanical cutting/forming equipment.

Note: Students are to wear safety glasses which they are required to purchase.

Note: This course is a dual credit course with Madison College. Students will receive 4 credits at Madison College upon completion of the course (Machine Tool 1, and Fabrication)

## **ADVANCED WELDING**

Grade Level: 11, 12

Credit: ½ (4 Credits MATC)

Length: Semester

Prerequisite: Successful completion of Machine Tool and Welding I, Machine Tool and Welding II, or Instructor Consent



Students in this course will learn about advanced welding techniques. Students will learn about welding and fabrication in the Manufacturing setting. Projects will be based around welding and various metals. Students in this course will develop manipulative skills on all types of joints in the flat position using shielded metal arc welding electrodes on mild steel. Welding techniques used for structural, pipe and maintenance welding will be developed. Students will develop manipulative skills on all types of joints in the flat position using shielded metal arc welding electrodes on mild steel. Welding techniques used for structural, pipe and maintenance welding will be developed).

Note: Students are to wear safety glasses which they are required to purchase.

Note: This course is a dual credit course with Madison College. Students will receive 4 credits at Madison College upon completion of the course (SMAW, GMAW).

## **MANUFACTURING YOUTH APPRENTICESHIP**

Grade Level: 11, 12

Credits: ½ - 4

Length: Full Year

Prerequisite: Successful completion of Machine Tool & Welding I, enrollment in Machine Tool & Welding II and acquire instructor consent.

Students who are serious about a career in the manufacturing industry should consider this youth apprenticeship. Students will acquire additional knowledge, skills, and concepts by participating in an industry level work experience in the area of manufacturing.

## **AUTOMOTIVE**



## **ENERGY & SMALL ENGINES**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

In today's world, understanding of exhaustible, inexhaustible, and renewable energy sources is critical. The semester will cover topics in both energy and small engines, the majority being in small engines.

During the Energy section of this class, students will learn about fossil fuels, and our dependence on them. Students will also learn about alternative energies and the importance of their development on our country. We will also discuss the need to conserve our resources and develop other methods to fulfill our energy needs. To demonstrate knowledge of content, students will complete a research paper and presentation of an energy source of their choosing. Students will then make a powerpoint and present their energy source to the class.

During the Small Engine section of this class, students will learn about the 4 Stroke Cycle, and the role that it plays in our daily lives. Students will learn the 4 distinct actions during the 4 stroke cycle, and what internal components of the engine need to do during each stroke. They will also gain an understanding of how various components must be timed for the cycles to function. Students will also be required to perform various labs during this portion of the class in which they will be

completing inspection, measurements, disassembly and reassembly of a small engine. If time allows, students will be able to bring in an engine from home for engine diagnosis and repair towards the end of the semester.

Students are required to provide a combination lock and approved safety glasses during the labs. They will also be required to complete and pass a nationally recognized Safety Module before they are allowed to begin any lab exercises.

**\*\*this course is recommended for the Automotive sequence but is not required.**

### **AUTOMOTIVE TECHNOLOGY I**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: Energy & Small Engines

The Automotive Technology 1 course is designed to provide the student with a basic knowledge of various automotive systems and the recommended maintenance required to keep the automobile operating safely and efficiently. Emphasis will be placed on the areas of safety, power and hand tools, the 4-Stroke Cycle, batteries, brakes, fluid and lubricants and tires. Various "hands-on" lab modules are required during this course. Students will also have an attempt to gain student ASE certification in brakes.

Students are required to purchase approved safety glasses, and a minimal charge may be imposed for supplies used during this course. Students must also pass a nationally recognized Safety Module to enable them to perform the required labs during this class.

### **AUTOMOTIVE TECHNOLOGY II**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Energy & Small Engines AND Automotive Technology I

This course is being offered as year one of the two year Automotive Program. Students will receive

instruction in the automotive areas of brakes, steering, suspension, engine performance, and electrical.

The students will gain knowledge in all aspects of suspension and steering to include inspection of components, automatic and manual transmissions, wheel alignment, engine performance and diagnostic testing, and electrical system operation and troubleshooting. Proper techniques and procedures for diagnosis, repair and maintenance of these systems will be practiced, which will also require the students to utilize diagnostic and specialized equipment. Work-based learning is also part of this program to assist the student in development of his or her work skills. Instruction will include live vehicle work as well as working with computer software and training aids from automotive components.

The students are required to provide approved safety glasses for this course and may be imposed a minimal expense for supplies used during this class. A required nationally recognized Safety Module must be completed prior to performing any required labs during this course.

### **ADVANCED AUTOMOTIVE SYSTEMS**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Energy & Small Engines, Auto Tech I, & Auto Tech II

This course is a vocationally oriented class which will help prepare students with the basic skill sets and knowledge needed to enter a post-secondary training program for future entry into an automotive service career. Students taking this course will work towards obtaining student based ASE certifications in steering and suspension, electrical diagnosis and repair, and engine performance. Students will also work toward obtaining certification with ALLDATA for both repair and collision facilities utilize.

A generous portion of class time will be spent on hands-on activities that will allow the students to expand their knowledge and skills developed in

Auto Tech I and II. In the extensive lab portion of this course, students will be required to utilize communication skills which will enable them to generate repair orders, perform inspections and diagnosis of various system malfunctions, and the repairs required to rectify the concern. The diagnosis will then require the student to create a repair estimate to determine the cost of the needed repair. After receiving approval for the repairs needed, the student or students will then proceed with the repair as well as quality control for the job upon completion. Students may be required to pay a minimal fee for materials. Students will be directed to choose their own repair projects to complete throughout the school year. A nationally accredited safety module must be completed for this course.

### **AUTOMOTIVE TECHNOLOGY YOUTH APPRENTICESHIP**

Grade Level: 11, 12

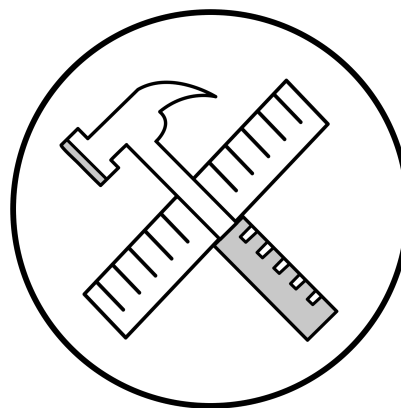
Credit:  $\frac{1}{2}$  - 1

Length: Semester or Full Year

Prerequisite: Enrolled or successful completion of Automotive Technology II or Advanced Automotive Systems & Instructor Consent

If the student is serious about a career in the automotive industry then this youth apprenticeship is for him/her. Students will build upon and increase automotive concepts and skills in the automotive industry or business setting.

## **CONSTRUCTION**



### **CONSUMER HOME & AUTOMOTIVE CARE**

Grade Level: 9, 10, 11, 12

Credit:  $\frac{1}{2}$

Length: Semester

Prerequisite: None

Consumer Home & Automotive Care is a course that will provide the student with the information and practical skills required to assist them in fixing some basic problems around the house or with your vehicle. Students will learn basic home repair in the areas of drywall, electrical circuits, plumbing and painting. Students will also learn about some of the basics about their vehicles in learning about how to change their oil, change a tire, etc. This course is for any student who may or may not want to pursue further studies in the Technology Education Department at Fort Atkinson High School. If you are considering renting or owning a home or car someday, this course is designed for you! Note: Students are to wear safety glasses which are the fiscal responsibility of the student.

### **CONSTRUCTION I**

Grade Level: 9, 10, 11, 12

Credit:  $\frac{1}{2}$

Length: Semester

Prerequisite: Consumer Home & Auto Care

Students will take part in classroom and lab activities to learn construction techniques used in industry today. The curriculum used for this course allows students to gain a nationally recognized

construction training certification through the National Center for Construction Education and Research (NCCER). The course will include techniques and information including basic construction safety, construction math, hand tools, power tools, construction drawings, communication skills, employability skills, materials handling, rough framing, roofing, drywall hanging and mudding. NOTE: Safety glasses must be worn at all times and they are the fiscal responsibility of the student.

## **CONSTRUCTION II**

Grade Level: 10, 11, 12

Credit: ½

Length: Semester

Length: Semester

Prerequisite: Consumer Home & Auto, Construction I

Building upon the skills obtained in Construction I (required) this course will provide students the opportunity to design and plan a larger scale project. Students will use prior skills and gain advanced skills by completing the selected project. Projects will include building a tool box, saw horse, bean bag toss, and the final project will be shed, gazebo, etc. NOTE: Safety glasses must be worn at all times and they are the fiscal responsibility of the student.

## **ADVANCED CONSTRUCTION**

Grade Level: 11, 12

Credit: ½

Length: Semester

Prerequisite: Consumer Home & Auto Care, Construction I, Construction II, & Instructors Approval.

Advanced Construction is the capstone course in the technology education construction pathway. Students will be improving on already developed skills in safety, floor framing, blueprint reading and drywall. They will be gaining new skills in window installation, door installation, electrical, plumbing and finish carpentry. These improved and new skills will be developed through a semester-long project of entirely building a half bathroom. The

project includes building a floor system, walls, stairs, door and window installation, PEX plumbing, PVC plumbing, residential wiring, sheathing, drywalling, trimwork, vanity installation and proper teardown. Upon completion of the construction pathway students will be ready to either go directly into the workforce, continued education or adult apprenticeship in construction fields.

## **CONSTRUCTION YOUTH APPRENTICESHIP**

Grade Level: 11, 12

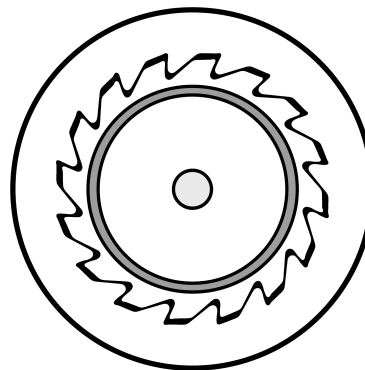
Credit: ½ - 1

Length: Semester or Full Year

Prerequisite: Enrolled or completion of Construction I & Instructor Consent.

If the student is serious about a career in the construction industry then this youth apprenticeship is for him/her. Students will build upon and increase construction concepts and skills in the construction industry or business setting.

## **CABINETMAKING**



## **BEGINNING CABINETMAKING**

Grade Level: 9, 10, 11, 12

Credit: ½

Length: Semester

Prerequisite: None

This is an introductory course to woodworking and cabinet making. It will allow the students to gain the knowledge and skills needed to plan and produce fine woodworking projects. This course will include types of wood, measurement and math skills, reading work instructions, making a cost

estimate, safely learning how to use hand tools, power tools, and equipment used in industry. Beginning projects are generally, but not limited to, a shop stool and cutting board. Second quarter students will build a project of their choosing. NOTE: Safety glasses must be worn at all times and they are the fiscal responsibility of the student. Also, there is a fee for any building materials used in class. Projects can only be taken home after the school has received payment. If there are any issues or concerns please contact the building principal.

### **ADVANCED CABINETMAKING**

Grade: 10, 11, 12

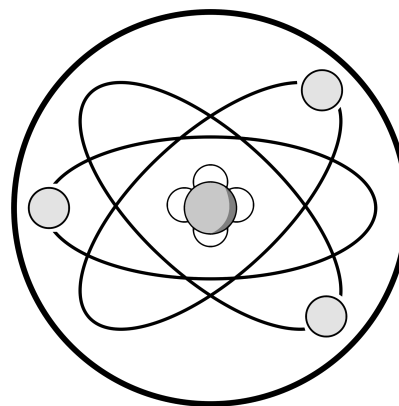
Credit: 1

Length: Full Year

Prerequisite: Beginning Cabinetmaking or  
Instructor Consent

This advanced course will allow students an in depth study of woodworking and cabinet making. It includes: Advanced skill activities on all equipment, drawer construction, various joinery techniques, design elements, cost estimates, creating work instructions, and problem solving. Students will create a production plan and complete it from start to finish to prove proficiency in the design, planning, and purchasing of materials. NOTE: Safety glasses must be worn at all times and they are the fiscal responsibility of the student. Also, there is a fee for any building materials used in class. Projects can only be taken home after the school has received payment. If there are any issues or concerns please contact the building principal.

## **ENGINEERING**



### **3D SOLID MODELING: COMPUTER AIDED DRAFTING**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Industry and technology have changed and evolved. We have gone from a 2D world of drawings, to a 3D world where engineers, designers, architects and production personnel can look at an object from all angles using software. In this STEM course, students will be using industry standard software, SolidWorks. Students will be involved in an interactive process where they can explore practical applications of the concepts they learn. They will put their designs concepts into practice, where ideas may become reality in this course.

Students will learn all aspects of the software SolidWorks. Including sketching, features, assembling, creating blueprints, simulation testing and video production of models. They will then have the opportunity to produce their designs in a variety of different ways. Through modeling using wood and printing via laser engraver, plotter and 3D printer.

At the completion of the course the students will be required to take the CSWA(Certified SolidWorks Associate) exam. This will certify the students as an amateur drafter in SolidWorks.

## **COMPUTER INTEGRATED MANUFACTURING: CIM**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Computer Integrated Manufacturing (CIM) is an exciting, rapidly changing field exploring the numerous ways in which computer technologies are linked to manufacturing. The course applies the concepts of solid modeling and Computer Aided Design (CAD) to develop prototypes and projects. The course will look at the numerous ways in which computer technology enhances and extends the potential of manufacturing systems.

Students will:

- Utilize computer modeling programs to create 3-D designs.
- Analyze designs using mass property analysis techniques for properties such as mass, volume, and moment of inertia.
- Explain the use of rapid prototyping in manufacturing.
- Explain the impact programmable machines have had on manufacturing.
- Assess applications of programmable machines.
- Write Computer Numerical Control (CNC) programs to accomplish given tasks using G-code and M-code.
- Measure parts accurately using common instruments such as micrometers and calipers.
- Use Computer Assisted Manufacturing (CAM) software to develop a CNC program which accurately produces a given part.
- Assess appropriate applications for robotics in the manufacturing industry.
- Differentiate between fixed and flexible manufacturing.
- Explain the components of a Computer Integrated Manufacturing (CIM) system.
- Justify appropriate applications for CIM.

## **INTRODUCTION TO ENGINEERING**

Grade Level: 9, 10, 11

Credit: 1

Length: Full Year

Prerequisite: None

The intent of this STEM course is to provide students with an orientation into the careers and challenges of engineering. Students who complete this course will learn the concepts necessary in order to develop their ideas into solutions that will improve our lives. Students will apply mathematical and scientific concepts to real life situations. Topics include:

- Concurrent Engineering
- Measurement
- Intro to 3D Solid Modeling
- Materials
- Electricity
- Problem Solving
- Engineering Disciplines

This is a **prerequisite** for the Principles of Engineering course.

## **PRINCIPLES OF ENGINEERING**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisites: Introduction to Engineering

\*Science Equivalency (counts as 3<sup>rd</sup> science credit)

The intent of the STEM course is to provide students with a more in depth understanding of the challenges and requirements it takes to be an engineer. Students who complete this course will know and understand what it takes to develop solutions and be a productive member of a team. They will apply science concepts primarily dealing with physics to assist them in their design challenges that mimic challenges currently faced by working engineers. Finally, students will not only be problem solving but they will be doing it through a hands-on manner using the resources available in the various Fort Atkinson Technology Facilities.

Topics include:

- Gantt and Flow Charts
- Mechanisms
- Fluid Power
- Electrical Circuits
- Gears
- Analysis engineering
- Problem Solving
- Design and modeling
- Industrial design

Upon completion of this course students will receive an elective credit in technology education at Fort Atkinson High School as well as a science equivalency credit at Fort Atkinson High School.

# WORLD LANGUAGE

Course Name	Credit	9	10	11	12	Prerequisite
French 1	1	X	X	X	X	None
French 2	1		X	X	X	French 1
French 3	1			X	X	French 2
French 4	1				X	French 3
German 1	1	X	X	X	X	None
German 2	1		X	X	X	German 1
German 3	1			X	X	German 2
German 4	1				X	German 3
Heritage Speaker Spanish	1	X	X	X	X	Proficient in Spanish
Spanish 1	1	X	X	X	X	None
Spanish 2	1	X	X	X	X	Spanish 1
Spanish 3	1		X	X	X	Spanish 2
Spanish 4	1			X	X	Spanish 3
Advanced Placement Spanish Language and Culture	1				X	Spanish 4

The Wisconsin Foreign Language Standards are being implemented in all World Language courses. The World Language Department strongly recommends a grade of C or better to successfully advance to the next level of language study.

## College Admissions

Questions often come up about whether or not foreign language is needed for college admissions. At this time, a minimum of 2 credits of one foreign language is required for admissions at UW Madison.. UW Platteville, UW Parkside, and UW Milwaukee require foreign language for all students at the university as a degree requirement. This requirement can be waived by taking high school World Language courses and passing the UW Placement Test for that language. Other UW schools may require World Language for specific degree requirements.

Foreign language is often taken by students with the intent of it satisfying all or a portion of the four academic electives needed as part of the total 17 college preparatory credits. (see page 5)

Students should consult the undergraduate bulletins published for each university or private college to determine if there are any admission or exit requirements in World Language and if the major they are interested in requires a World Language.

**FRENCH 1**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Workbook Fee: \$22.00

This course is an activity-filled introduction to the French language and culture through various speaking, listening, reading and writing activities and games. Units focus on describing yourself, friends, family, school and leisure activities, and of course, food! A study of France and other French-speaking countries is also a part of this course.

**FRENCH 2**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: French 1

Workbook Fee: \$22.00

This course is a continuation of French 1, helping you develop your language skills with more proficiency. More advanced grammar usage is presented and Paris and French-speaking countries are studied. Units focus on clothing, shopping for food, describing your home, weather and seasons, your health and environmental issues.

**FRENCH 3**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: French 1 &amp; 2

Workbook Fee: \$22.00

This intermediate level course is designed to increase your fluency in the language through various speaking, listening, reading and writing activities and games. Conversational techniques are polished and the language is studied in more depth. Units focus on travel and asking directions, vacation and summer activities, agriculture and rural life, college student life, driving, staying in hotels, and daily routines.

**FRENCH 4**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: French 1, 2, and 3

Workbook Fee: \$22.00

This intermediate level course is aimed at helping you improve your oral and written skills, increasing your fluency in the French language. Units focus on French meals, regions of France, French West Indies and their celebrations and food, technology, societal problems and solutions, vacations and tourism, and children's stories. French 4 is geared for students intending to pursue an in-depth understanding of the French language at the university level.

**GERMAN 1**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Guten Tag!

German is gradually introduced at the beginning of the year in German 1, and before you know it, you will be able to understand, speak, read, and write in German! You will learn German through a wide variety of engaging, interactive, brain-friendly activities, and our new technology based textbook. Come and experience this I.Q. enhancing language!

**GERMAN 2**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: German 1

Now you can build on your knowledge of German from level 1, and do even more sophisticated activities in German 2! Putting on a fashion show, giving dog commands, and playing soccer in German are just some of the ways we have fun using German in level 2! You will also become an expert about the formerly-divided city of Berlin.

### **GERMAN 3**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: German 1 & 2

Be a part of this special group that really explores what can be done in German! German 3 is still thematically based (with interesting activities), but with over two years of experience, you can start to speak and write with more sophistication. At this level, we can write a short story, make a video, or perform a skit, along with engaging theme-based projects.

### **GERMAN 4**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: German 1, 2 & 3;

The successful completion of German 4 can enhance your post-secondary education in many ways! You should be ready for continued university study, or simply to travel abroad, as we cover almost every aspect of the German language. Mixed in with the continuation of reading, writing, speaking, and comprehension are teacher-designed units on Anne Frank, fairy tales, an interesting German-speaking composers/music unit, and much more!

### **HERITAGE SPEAKER SPANISH**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Students who have a proficiency in or a cultural connection to Spanish from when their language was developing at a young age.

Heritage Language Learners are students who have proficiency in or a cultural connection to Spanish from when their language was developing at a young age. These students are typically stronger in oral skills (listening and speaking) of Spanish, but have deficiencies in literacy (reading and writing)

due to lack of exposure to written Spanish text or formal educational experience in Spanish. This course honors the existing strengths of these students and targets the developmental needs for mastery of the written language and nurtures the continued multilingual language development.

### **SPANISH 1**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: None

Workbook Fee: \$24.00

This novice level course is divided between speaking, listening, reading, and writing activities. This course focuses on the mastery of basic vocabulary, pronunciation and grammar. Units focus on describing yourself, your family, friends, meals, hobbies, school and home topics. Cultural awareness is stressed throughout each unit. Students will demonstrate communication skills through chapter assessments and creative projects. Students are encouraged to speak Spanish in class.

### **SPANISH 2**

Grade Level: 9, 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Spanish 1

Workbook Fee: \$24.00

This second year Spanish course allows students to continue to develop skills in speaking and understanding and is aimed at enhancing reading and writing ability. After a brief review of first-year skills, the student is introduced to more advanced vocabulary and grammar usage. Units focus on the school day, vacations, tv and movies, daily routine, special occasions, childhood memories and your community. Cultural awareness is stressed throughout each unit.

Students will demonstrate communication skills through chapter assessments and creative projects. Students are encouraged to speak Spanish in class.

**SPANISH 3**

Grade Level: 10, 11, 12

Credit: 1

Length: Full Year

Prerequisite: Spanish 1 and 2

Workbook Fee: \$24.00

This intermediate level course will allow students to expand their knowledge in both spoken and written forms of the Spanish language and culture. This course is a continuation of Spanish 1 and 2; therefore the vocabulary, grammar and cultural foundation will be enhanced. Units focus on television and movies, food, travel, professions, unforgettable experiences, artistic performances, and health & fitness. Students will demonstrate communication skills through chapter assessments, short readings and creative projects. Classroom activities are conducted mostly in Spanish. Students should mostly speak Spanish in class.

**SPANISH 4**

Grade Level: 11, 12

Credit: 1

Length: Full Year

Prerequisite: Spanish 1, 2, and 3

Workbook Fee: \$24.00

This intermediate level course will allow students to participate actively using oral and written forms of the language with increased competency and proficiency. This course will include conversations, interviews, advanced vocabulary and grammar, reading selections and culture. Units focus on relationships, work, community, the future, myth or reality, cultures, caring for our planet, and rights and responsibilities. Students will demonstrate communication skills through chapter assessments, short readings and creative projects. Classroom activities are conducted mostly in Spanish. Students should speak mostly Spanish in class.

**ADVANCED PLACEMENT SPANISH  
LANGUAGE AND CULTURE**

Grade Level: 12

Credit: 1

Length: Full Year

Prerequisite: Successful Completion of Spanish 4  
or instructor consent

AP Spanish Language and Culture is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students who enroll should already have intermediate/high knowledge of the language and cultures of Spanish-speaking peoples and should have attained a reasonable proficiency in using the language. The AP Spanish Language and Culture course prepares students to demonstrate their level of Spanish proficiency across three communicative modes: Interpersonal, Interpretive, and Presentational; and the five goal areas outlined in the *Standards for Foreign Language Learning in the 21st Century* (Communication, Cultures, Connections, Comparisons, and Communities). The primary goal of this course is that students develop the ability to communicate in Spanish at a pre-advanced level. The course will be conducted in Spanish and students are expected to speak online Spanish in class.