

# **WATERLOO**

**HIGH SCHOOL**

## **COURSE GUIDE**

**2024-2025**



# **PIRATES**



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# Waterloo School District

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## Board of Education

Charles Crave, Vice President	Mathew Schneider, President
Sara Cummings, Clerk	Jim Setz, Director
William Farrey, Director	Chad Yerges, Director
Susan Quamme, Treasurer	

## District Administration

Brian Henning, Superintendent	Michele Armentrout, Director of Pupil Services
Susan Cooke, Business Director	Christine Ziemann, Curriculum Director

## High School Principal and School Counselor

Mr. Shawn Bartelt, Principal Phone: 920.478.2171, Ext. 4101 Email: bartelts@waterloo.k12.wi.us	Mr. Tyler Kopplin, School Counselor Phone: 920.478.2171, Ext. 4401 Email: kopplint@waterloo.k12.wi.us
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This guide provides information to help your decision process for the next school year. Course selection is an important step as it can impact a student's grade point average, eligibility to enroll in higher level courses, college admissions qualifications, athletic eligibility, and career preparedness.

If you have questions or concerns regarding scheduling, courses, grades, postsecondary planning or personal issues, please contact Mr. Kopplin.

# Graduation Requirements

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In selecting your courses, you should be mindful of our graduation requirements, the requirements of universities and technical colleges and what a typical Waterloo High schedule looks like.

1. All students must carry 7.0 credits.
2. Students must earn 26 credits for graduation
3. Specific course requirements:

Subject/Course	Credits Required
<b>English</b>	4
<b>Social Studies</b> <ul style="list-style-type: none"> <li>• World History</li> <li>• US History 10</li> <li>• US History 11</li> </ul>	1 1 1
<b>Math</b>	3
<b>Science</b>	3
<b>Fine Arts</b> (Band, Choir or Art 1)	1
<b>Physical Education</b> <ul style="list-style-type: none"> <li>• PE 9</li> <li>• PE Electives</li> </ul>	.5 1
<b>Other Required Courses</b> <ul style="list-style-type: none"> <li>• Career Skills</li> <li>• Personal Finance</li> <li>• Health</li> </ul>	.25 .25 <i>See requirement below.</i>
<b>Total Required Credits</b>	16.5
<b>Elective Credit Requirement</b>	9.5
<b>Total Credits Required for Graduation</b>	<b>26</b>

## Additional Graduation Requirements:

- **Health:** Students must complete .5 credit of health in middle school or high school (grades 7-12). If health is taken in middle school, it does not count toward your 26 total credits for graduation. If you take it in high school, it will count toward your elective credit requirement.
- **Civics Exam:** Students, starting with the class of 2018, must correctly answer at least 65 of 100 questions identical to the citizenship test of the United States Citizenship and Immigration Services in order to graduate from a WI public, charter, or private school participating in a parental choice program.
  - IEP teams will determine if the test is appropriate for each individual student with an IEP.
  - Students identified as LEP may take the test in their language of choice. LEP students must pass the test in order to graduate.

# Student Course Load by Year

The following are typical Waterloo High School schedules for grades 9-12:

9th Grade	
English 1	1.0 Credit
Math	1.0 Credit
World History	1.0 Credit
Biology	1.0 Credit
Physical Education	0.5 Credit
Electives	2.5 Credits
<b>TOTAL CREDITS</b>	<b>7</b>
11th Grade	
English 3	1.0 Credit
Math	1.0 Credit
US History 11	1.0 Credit
Science	1.0 Credit
Physical Education	0.5 Credit
Electives	2.5 Credits
<b>TOTAL CREDITS</b>	<b>7</b>

10th Grade	
English 2	1.0 Credit
Math	1.0 Credit
US History 10	1.0 Credit
Physical Science or Chemistry	1.0 Credit
Physical Education	0.5 Credit
Personal Finance/Career Skills	0.5 Credit
Electives	2.0 Credits
<b>TOTAL CREDITS</b>	<b>7</b>
12th Grade	
English 4	1.0 Credit
Social Studies	1.0 Credit
Fine Arts, Math and/or Science*	1.0 Credit*
Electives - 4 Credits	4.0 Credits
<b>TOTAL CREDITS</b>	<b>7</b>

*\*Must take if graduation requirement is not already met.*

## PREREQUISITES

It is imperative that parents/guardians and students check course descriptions carefully to identify prerequisite courses. Students are sometimes required to prepare for advanced courses by first completing basic courses. Students will not be permitted to enroll in courses without successfully completing the prerequisite course(s). If a particular course is needed for graduation, concurrent enrollment will be allowed only with the approval of the principal.

## PROCEDURES REGARDING SCHEDULES, SCHEDULING AND SCHEDULE CHANGES

Class sections are created and teachers are assigned on the basis of a student's initial course selection. Therefore, students and parents/guardians should presume that initial course selections will be the final course selections.

Students who request a schedule change must first see the School Counselor. Changes initiated by the student or parent/guardian after the first 3 days of the term will result in a grade of "WF" (Withdrew Failing) being issued for that term, with a grade point value of 0. This policy means that selecting your courses requires careful consideration.

## CREDIT/NO CREDIT COURSES

Certain courses are offered on a Pass/Fail basis. Grades for these courses will be entered on the student's report card and permanent record as either "P", meaning the student earned the credit for which the course was offered, or "F", meaning that the student did not earn any credit. Grades for these courses are not computed in the student's grade point average or class rank. Pass/Fail courses include: Mentorship, Youth Apprenticeship and Work Experience.

# Early Graduation

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Requests for early graduation must be submitted to the School Counselor prior to completion of the student's twelfth term. Students wishing to graduate early must comply with Board of Education policy in this area. The policy is available in the Principal's office.

# Early College Credit Program and Start College Now

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The Start College Now/Early College Credit program allows Waterloo High School students who meet certain requirements to take post-secondary coursework at a UW institution, a Wisconsin technical college or a participating private, nonprofit institution of higher education.

Participation is limited to junior and senior students who:

1. Are full-time students in the Waterloo School District.
2. Have earned at least 14 credits in 2 years or 17.5 credits in 2.5 years or 21 credits in 3 years or 24.5 credits in 3.5 years of high school.
3. Have an acceptable disciplinary record.
4. Are in good academic standing, passing all courses, on-track for graduation, with a grade point average of not less than 2.0 on the 4-point scale.
5. Are not considered an at risk student as defined in Wisconsin Statute 118.153(1)(a).
6. Notify the District of their intent to attend a technical college or institution of higher education in accordance with the timelines established by state law, October 1 for the spring semester and March 1 for the fall semester.
7. Students are limited to 18 credits over a two-year period.

Start College Now/Early College Credit program participation for students who earn 21.0 credits and attain senior or 12th grade status is limited to the two consecutive semesters immediately following the semester in which they have earned 21.0 credits. The school may request reimbursement for a failing grade in a course or when withdrawal from the course is made after the school has made payment to the institution. Students will receive .25 credit for every 1 credit earned at the college. Interested students should obtain additional information and intent forms from the High School Office.

# Online Learning

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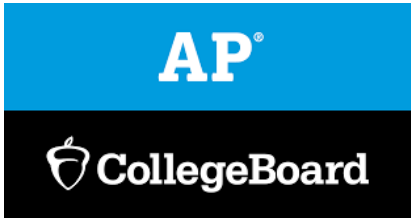

Online courses from accredited institutions are also available for students seeking electives not currently offered at Waterloo High School. Students may enroll in these courses at the district expense through the district approved virtual school. Students are allowed to schedule a maximum of one credit per year, which can be included within the 7 credit minimum credit requirement. These courses need to support their Academic Career Plan (ACP) and be approved by the high school counselor.

# Advanced Placement (AP)

The Advanced Placement (AP) program allows students to take college level AP courses and/or AP exams that may give them college credit, placement or both while they are still in high school. High school credit is also awarded upon successful completion of an AP course.

Virtual courses for Advanced Placement coursework will also be available to students. Students in grades 11 and 12 are able to enroll in a maximum of one virtual course per year. Students are allowed to schedule a maximum of one credit per year, which can be included within the 7 credits. Students may enroll in these courses at the district expense through the district approved virtual school. These courses need to support their Academic and Career Plan (ACP) and be approved by the high school counselor.

Students (whether they take an AP course or not) who wish to take AP exams to qualify for potential college credit will be responsible for paying the AP exam fee. According to Wisconsin Statutes 120.12(22) the Waterloo School District will pay a portion of the exam fee for students who qualify for free or reduced priced lunch. For enrollment questions regarding any of the advanced programming options, please see the high school counselor.

Advanced Placement 				
Course	Length	Credits		
AP English Language & Composition	Year	1.0	<b>General Information about AP:</b> <a href="https://apstudents.collegeboard.org/">https://apstudents.collegeboard.org/</a>	
AP English Literature & Composition	Year	1.0		
AP Computer Science Principles	Year	1.0	<b>College Board Credit Policy:</b> <a href="https://apstudents.collegeboard.org/getting-credit-placement/search-policies">https://apstudents.collegeboard.org/getting-credit-placement/search-policies</a>	
AP Statistics	Year	1.0		
AP Calculus AB	Year	1.0		
AP Calculus BC	Year	1.0		
AP Biology	Year	1.0	<b>Check your AP Credits:</b> <a href="https://uwhelp.wisconsin.edu/prepare-for-college/additional-credit-opportunities/enroll-in-ap-and-ib-programs/">https://uwhelp.wisconsin.edu/prepare-for-college/additional-credit-opportunities/enroll-in-ap-and-ib-programs/</a>	
AP Chemistry	Year	1.0		
AP US History	Year	1.0		
AP Psychology	Year	1.0		
AP European History	Year	1.0		


# Dual Credit Program

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Dual Credit allows a student to receive technical college credit upon successful completion of a college-level course taken in their high school. The college-level course is delivered at the high school with the same competencies, assignments, grading policies, textbooks, and software (if applicable).

The student must receive a grade of a “C” or higher to qualify. A grade lower than a C may jeopardize receiving future financial aid awards. Look for the Madison College logo inserted in the course description.

Note: Taking the course as dual credit is an option. The course can also be taken solely for high school credit.

Dual Credit Courses - Transcribed Credit			
Waterloo Course Title	Course Length	College Credits	College Course
Accounting 1	Year	4.0	Accounting 1 - Principles
IT Essentials	Semester	3.0	A+ Hardware Essentials
Computer Applications	Year	5.0	Beginning Word/Excel, Access, Outlook & PowerPoint
Welding & Fabrication 1	Semester	2.0	Basic Arc (SMAW)
Welding & Fabrication 2	Semester	2.0	Basic Gas Metal Arc Welding (SMAW/MIG)
Machining 1	Semester	2.0	Machine Tool 1 (Part A)

# Requirements for College Admission

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## UNIVERSITY OF WISCONSIN SYSTEM

Seventeen college preparatory credits are required for college admission at this time. Thirteen of the seventeen credits will be distributed as follows:

English	4 credits
Social Science	3 credits
Mathematics	3 credits (at most institutions: Algebra, Advanced Algebra/Algebra 2 and Geometry)
Natural Science	3 credits
Electives	4 Credits
World Language*	2 credits (UW Madison Only)

The remaining four credits will be from the following areas: world languages, fine arts, computer science and other academic areas. Each institution may specify additional credit requirements for the remaining four credits and may specify required content for all seventeen credits.

\*World language is required for graduation from UW Milwaukee and UW Platteville. Two years of a single world language taken in high school will satisfy this requirement. UW Madison is the only campus that has a requirement for admission.

The university entrance requirements change frequently as the universities attempt to fine tune their programs and meet budgetary constraints. Students and parents/guardians are advised to check frequently with specific universities. More information can be found online at <https://uwhelp.wisconsin.edu>. You may also call our School Counselor at 920-478-2171, ext. 4401.

## MADISON COLLEGE AND OTHER TECHNICAL SCHOOLS IN WISCONSIN

As more and more students look at the offerings at Madison College, it is important to keep the following guidelines in mind:

- Admission requirements vary significantly by program and by institution;
- Application due dates also vary by program and institution;
- Some programs require students to take the ACT test.
- There are strict limits on enrollment in most programs so students should make their inquiries as early as possible.

More information can be found at [madisoncollege.edu](http://madisoncollege.edu).

# Career Clusters and Pathways

Career clusters are broad occupational groupings that serve as an organizing tool, categorizing common knowledge and skill sets for secondary and postsecondary education. Career clusters use 16 broad groups of occupations and 79 pathways (sub-groups).

More information can be found online at <https://careertech.org/what-we-do/career-clusters/>

## Sixteen Career Clusters and Their Pathways

 <b>Agriculture, Food and Natural Resources</b> Agribusiness Systems Animal Systems Environmental Service Systems Food Products and Processing Systems Natural Resources Systems Plant Systems Power, Structural and Technical Systems	 <b>Hospitality and Tourism</b> Lodging Recreation, Amusements and Attractions Restaurants and Food/Beverage Services Travel and Tourism
 <b>Architecture and Construction</b> Construction Design/Pre-Construction Maintenance/Operations	 <b>Human Services</b> Consumer Services Counseling and Mental Health Services Early Childhood Development and Services Family and Community Services Personal Care Services
 <b>Arts, Audio/Video Technology and Communications</b> Audio and Video Technology and Film Journalism and Broadcasting Performing Arts Printing Technology Telecommunications Visual Arts	 <b>Information Technology</b> Information Support and Services Network Systems Programming and Software Development Web and Digital Communications
 <b>Business Management and Administration</b> Administrative Support Business Information Management General Management Human Resources Management Operations Management	 <b>Law, Public Safety, Corrections and Security</b> Correction Services Emergency and Fire Management Services Law Enforcement Services Legal Services Security and Protective Services
 <b>Education and Training</b> Administration and Administrative Support Professional Support Services Teaching/Training	 <b>Manufacturing</b> Health, Safety and Environmental Assurance Logistics and Inventory Control Maintenance, Installation and Repair Manufacturing Production Process Development Production Quality Assurance
 <b>Finance</b> Accounting Banking Services Business Finance Insurance Securities and Investments	 <b>Marketing</b> Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales
 <b>Government and Public Administration</b> Foreign Service Governance National Security Planning Public Management and Administration Regulation Revenue and Taxation	 <b>Science, Technology, Engineering and Mathematics</b> Engineering and Technology Science and Math
 <b>Health Science</b> Biotechnology Research and Development Diagnostic Services Health Informatics Support Services Therapeutic Services	 <b>Transportation, Distribution and Logistics</b> Facility and Mobile Equipment Maintenance Health, Safety and Environmental Management Logistics Planning and Management Services Sales and Service Transportation Operations Transportation Systems/Infrastructure Planning, Management, and Regulation Warehousing and Distribution Center Operations

# Waterloo Career Program Area Courses

## Agriculture, Food and Natural Resources

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Agribusiness/Science Tech</li><li>➤ Agricultural Equipment Tech</li><li>➤ Arboriculture-Urban Forestry</li><li>➤ Biotechnology Laboratory Tech</li><li>➤ Dairy Herd Management</li><li>➤ Environmental/Pollution Control</li><li>➤ Farm Business Production</li><li>➤ Farm Operation</li><li>➤ Golf Course Management</li><li>➤ Health Physic Technician</li><li>➤ Horticulture</li><li>➤ Laboratory Animal Tech</li><li>➤ Landscape Horticulture</li><li>➤ Natural Resources Tech</li><li>➤ Veterinary Technician</li><li>➤ Water Quality Tech</li></ul>		<ul style="list-style-type: none"><li>➤ Agricultural Journalism</li><li>➤ Agricultural Studies</li><li>➤ Agronomy</li><li>➤ Animal Science</li><li>➤ Conservation</li><li>➤ Dairy Science</li><li>➤ Forestry</li><li>➤ Horticulture</li><li>➤ Paper Science</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Intro to Agriculture Intro to Business	Accounting I (DC) Ag-Business Management Large Animal Science Small Animal Care Horticulture Small Business Management Business Law	Accounting II Ecology Food Science (ES) Economic and Political Systems Veterinary Science Physics AP Chemistry Start College Now Early College Credit Youth Apprenticeship



## Architecture and Construction

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Air Conditioning, Heating &amp; Refrigeration Technology</li><li>➤ Architectural Design</li><li>➤ Architectural Drafting/Construction Technology</li><li>➤ Architectural Woodworking/Cabinet Making</li><li>➤ Bricklaying &amp; Masonry</li><li>➤ Carpentry</li><li>➤ Construction</li><li>➤ Electrical Power Distribution &amp; Remodeling</li><li>➤ Electricity</li><li>➤ Gas Utility Construction &amp; Service</li><li>➤ Land Survey Technician</li><li>➤ Model Building Design &amp; Construction</li><li>➤ Preparatory Plumbing</li><li>➤ Residential Building Systems Specialist</li><li>➤ Wood Tech</li></ul>		<ul style="list-style-type: none"><li>➤ Architectural Studies</li><li>➤ Construction</li><li>➤ Engineering</li><li>➤ Landscape Architecture</li><li>➤ Paper Science</li><li>➤ Occupational Safety</li><li>➤ Urban Planning</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Intro to Technology Plastic Technology Architectural Design Woods I Art 1	Machining I (DC) Woods II Drawing Construction Technology	Machining II Drawing Studio Engineering Concepts Advanced Technology Start College Now Early College Credit Youth Apprenticeship



## Arts, Audio/Video Technology Communications

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Animation</li><li>➤ Broadcast Captioning</li><li>➤ Computer Art Graphics</li><li>➤ Graphic Communications</li><li>➤ Graphic Design</li><li>➤ Package and Label Printing</li><li>➤ Photography</li><li>➤ Printing</li><li>➤ Printing and Publishing</li><li>➤ Radio Broadcasting</li><li>➤ Technical Communications</li><li>➤ Television Production</li><li>➤ Visual Communications</li></ul>		<ul style="list-style-type: none"><li>➤ Advertising</li><li>➤ Art</li><li>➤ Broadcast Journalism</li><li>➤ Broadcast Production</li><li>➤ Communication Technology</li><li>➤ Digital Arts/Animation</li><li>➤ Electronic Media</li><li>➤ English</li><li>➤ Fine Arts</li><li>➤ Graphic Design</li><li>➤ Industrial Design</li><li>➤ Interior Design</li><li>➤ Journalism</li><li>➤ Marketing Communications</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Intro to Technology Intro to Marketing Computer Applications (DC) Art 1 Communications Creative Writing Communication Technology-Photo Communication Technology-Video Architectural Design	Graphic Design Drawing Ceramics Painting Art Metalwork AP Computer Science Principles	Advanced Communications Game Design Drawing Studio Ceramics Studio Painting Studio AP English Lit/Comp AP English Lang/Comp Start College Now Early College Credit Youth Apprenticeship



**CareerClusters®**  
PATHWAYS TO COLLEGE & CAREER READINESS

# Arts, A/V Technology & Communications

## Business Management and Administration

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Accounting</li><li>➤ Administrative Assistant</li><li>➤ Bilingual Office Assistant</li><li>➤ Business Software Applications</li><li>➤ Business &amp; Technology Coordinator</li><li>➤ Business Mid-Management</li><li>➤ e-Commerce/Web Admin</li><li>➤ Global Business Specialist</li><li>➤ Health Care Business Services</li><li>➤ Human Resources</li><li>➤ Information Processing Specialist</li><li>➤ Legal Secretary</li><li>➤ Medical Administrative Spec.</li><li>➤ Medical Transcription</li><li>➤ Paralegal</li><li>➤ Property Management Assoc.</li><li>➤ Quality Management</li><li>➤ Real Estate Brokerage</li><li>➤ Retail Management</li><li>➤ Small Business Operation</li><li>➤ Supervisory Management</li><li>➤ Travel Services</li><li>➤ Web Developer</li></ul>		<ul style="list-style-type: none"><li>➤ Accounting</li><li>➤ Actuarial Science</li><li>➤ Business Administration</li><li>➤ Economics</li><li>➤ Finance</li><li>➤ Hotel, Restaurant Management</li><li>➤ Industrial Management</li><li>➤ International Business Management</li><li>➤ Marketing</li><li>➤ Real Estate</li><li>➤ Transportation</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Intro to Business Intro to Marketing Computer Applications Communications	Accounting I (DC) IT Essentials Small Business Management Business Law	Accounting II Advanced Communications Start College Now Early College Credit Youth Apprenticeship



## Education and Training

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Human Resources</li><li>➤ Human Resources/Business</li><li>➤ Administration</li><li>➤ Child Care Services</li><li>➤ Early Childhood Education</li><li>➤ Educational Interpreter</li></ul>		<ul style="list-style-type: none"><li>➤ Ag Education</li><li>➤ Art Education</li><li>➤ Business Education</li><li>➤ Coaching</li><li>➤ Community Education</li><li>➤ Music Education</li><li>➤ Physical Education</li><li>➤ Special Education</li><li>➤ Technology Education</li><li>➤ Outdoor Education</li><li>➤ English Education</li><li>➤ Math Education</li><li>➤ Social Studies Education</li><li>➤ FCS Education</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
World Language Computer Applications (DC) Band Choir Intro to Agriculture Intro to Business Intro to Technology Computer Applications Art I Communications Cultural Geography Military History	World Language Drawing Ceramics Painting Graphic Design Art Metalwork Small Animal Care Large Animal Care	World Language Advanced Communications Drawing Studio Painting Studio Ceramics Studio Sociology Economic and Political Systems AP Psychology AP Statistics AP Calculus AB AP Calculus BC Mentorship Start College Now Early College Credit Youth Apprenticeship



# Finance

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Banking &amp; Financial Services</li><li>➤ Finance</li><li>➤ Financial Institutions Management</li><li>➤ Financial Planning Associate</li><li>➤ Financial Services Rep</li><li>➤ Quality Assurance Technician</li><li>➤ Security Loss Prevention</li></ul>		<ul style="list-style-type: none"><li>➤ Accounting</li><li>➤ Business Administration</li><li>➤ Economics</li><li>➤ Entrepreneurship</li><li>➤ Finance</li><li>➤ Marketing</li><li>➤ Management</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Intro to Business Intro to Marketing Computer Applications Communications	Accounting I (DC) Small Business Management Business Law	Accounting II Advanced Communications Start College Now Early College Credit Youth Apprenticeship



## Government & Public Administration

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Administrative Assistant</li><li>➤ Banking &amp; Financial Services</li><li>➤ Bilingual Office Assistant</li><li>➤ Community Dev. Disabilities</li><li>➤ Criminal Justice-Corrections</li><li>➤ Criminal Justice-Law</li><li>➤ Enforcement</li><li>➤ Emergency Medical Tech</li><li>➤ Environmental &amp; Pollution Control</li><li>➤ Fire Science</li><li>➤ Global Business Specialist</li><li>➤ Information Security Specialist</li><li>➤ Interpreter</li><li>➤ Judicial Reporting</li><li>➤ Legal Secretary</li><li>➤ Paralegal</li><li>➤ Paramedic Technician</li><li>➤ Technical Communications</li><li>➤ Web Developer</li></ul>		<ul style="list-style-type: none"><li>➤ Criminal Justice</li><li>➤ Environmental Law Enforcement</li><li>➤ Human Services</li><li>➤ Legal Studies</li><li>➤ Public Administration</li><li>➤ Recreation Management</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
World Language Introduction to Business Computer Applications (DC) Cultural Geography Communications	World Language IT Essentials Graphic Design Forensic Science Health Science Business Law Forensic Science Health Science AP Computer Science Principles	World Language Advanced Communications Ecology Economic and Political Systems Start College Now Early College Credit Youth Apprenticeship





# Health Science

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Adv Intensive Care Paramedic</li><li>➤ Anesthesia Technology</li><li>➤ Cardiovascular Technology</li><li>➤ Chiropractic Technician</li><li>➤ Clinical Laboratory Technician</li><li>➤ Dental Assistant</li><li>➤ Dental Hygienist</li><li>➤ Diagnostic Medical Sonography</li><li>➤ Electroneurodiagnostic Tech</li><li>➤ Emergency Medical Technician</li><li>➤ Healthcare Business Services</li><li>➤ Health Unit Coordinator</li><li>➤ Medical Assistant</li><li>➤ Medical Coding Specialist</li><li>➤ Medical Transcription</li><li>➤ Medication Assistant</li><li>➤ Nursing-Associate Degree</li><li>➤ Nursing Assistant</li><li>➤ Occupational Therapy Assistant</li><li>➤ Optician Science</li><li>➤ Paramedic Technician</li><li>➤ Pharmacy Technician</li><li>➤ Phlebotomy Technician</li><li>➤ Physical Therapist Assistant</li><li>➤ Surgical Technologist</li><li>➤ Therapeutic Massage</li></ul>		<ul style="list-style-type: none"><li>➤ Art Therapy</li><li>➤ Athletic Training</li><li>➤ Community Health Education</li><li>➤ Dietetics</li><li>➤ Exercise and Sport Science</li><li>➤ Fitness</li><li>➤ Kinesiology</li><li>➤ Medical Technology</li><li>➤ Music Therapy</li><li>➤ Nursing</li><li>➤ Occupational Therapy</li><li>➤ Physician Assistant</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Computer Applications (DC) Intro to Business	Genetics Anatomy and Physiology Forensic Science Health Science Accounting I	Food Science (ES) AP Psychology AP Chemistry Physics Start College Now Early College Credit Youth Apprenticeship



# Hospitality and Tourism

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Baking Production</li><li>➤ Baking/Pastry Arts</li><li>➤ Culinary Arts</li><li>➤ Culinary Management</li><li>➤ Facilities Maintenance</li><li>➤ Food and Beverage Prod</li><li>➤ Food Service Aide</li><li>➤ Food Service Production</li><li>➤ Hotel and Restaurant Management</li><li>➤ Hotel/Hospitality Management</li><li>➤ Marketing and Graphic Communications</li><li>➤ Meeting and Event Management</li><li>➤ Quality Assurance Tech</li><li>➤ Recreation Management</li><li>➤ Retail Management</li><li>➤ Security Loss Prevention</li><li>➤ Travel Services</li></ul>		<ul style="list-style-type: none"><li>➤ Hotel, Restaurant, and Tourism Management</li><li>➤ Marketing</li><li>➤ Graphic Communication Management</li><li>➤ International Business</li><li>➤ Marketing Communications</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Art 1 Introduction to Business Introduction to Marketing Communications	Accounting 1 (DC) Business Law Small Business Management Graphic Design	Accounting II Advanced Communications Food Science (ES) Start College Now Early College Credit Youth Apprenticeship



## Human Services

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Alcohol and Other Drug Abuse Associate</li><li>➤ Barber/Cosmetologist</li><li>➤ Child Care Services</li><li>➤ Community Development</li><li>➤ Disabilities Associate</li><li>➤ Real Estate Broker</li><li>➤ Massage Therapist</li><li>➤ Dietary Manager</li><li>➤ Dietetic Technician</li><li>➤ Early Childhood Education</li><li>➤ Funeral Service</li><li>➤ Human Services Associate</li><li>➤ Salon Services-Hair and Nail Design</li></ul>		<ul style="list-style-type: none"><li>➤ Political Science</li><li>➤ Psychology</li><li>➤ Social Welfare</li><li>➤ Social Work</li><li>➤ Sociology</li><li>➤ Urban and Regional Studies</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
World Language Communications Computer Applications (DC)	World Language Small Business Management Business Law Health Science	World Language Food Science (ES) Advanced Communications Economic and Political Systems AP Psychology Start College Now Early College Credit Youth Apprenticeship



**CareerClusters®**  
PATHWAYS TO COLLEGE & CAREER READINESS

# Human Services

# Information Technology

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Business &amp; Technology</li><li>➤ CIS-Computer Systems</li><li>➤ Administration Specialist</li><li>➤ CIS-Database Administrator</li><li>➤ CIS-Microcomputer Applications Software Technician</li><li>➤ CIS-Micro. Programmer</li><li>➤ CIS-Microcomputer Specialist</li><li>➤ CIS-Microcomputer Technician</li><li>➤ CIS-Network Communication</li><li>➤ CIS-Network Specialist</li><li>➤ CIS-Programmer/Analyst</li><li>➤ CIS-Technical Support Specialist</li><li>➤ CIS-User Support &amp; Training</li><li>➤ CIS-Web Analyst/Programmer</li><li>➤ CIS-Web Development &amp; Design Specialist</li><li>➤ Computer-Networking</li><li>➤ Computer Hardware Tech</li><li>➤ Computerized Accounting</li><li>➤ E-Business Technology</li><li>➤ E-Commerce/Web Admin</li><li>➤ Geographic Info Systems</li><li>➤ Information Processing Specialist</li><li>➤ Information Security</li></ul>		<ul style="list-style-type: none"><li>➤ Business Administration</li><li>➤ Computer Engineering</li><li>➤ Computer Science</li><li>➤ Technology Education</li><li>➤ Applied Math and Computer Science</li><li>➤ Computer Information Systems</li><li>➤ Information Technology Management</li><li>➤ Software Engineering</li><li>➤ Web and Digital Media Development</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Computer Applications (DC) Communication Technology - Photo Communication Technology - Video Intro to Business Intro to Technology	Accounting I (DC) Graphic Design IT Essentials (DC) AP Computer Science Principles	Accounting II AP Statistics Start College Now Early College Credit Youth Apprenticeship



## Law, Public Safety, Corrections and Security

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Advanced Intensive Care Paramedic</li><li>➤ Criminal Justice-Corrections</li><li>➤ Criminal Justice-Law</li><li>➤ Emergency Medical Services -EMT</li><li>➤ Environmental Haz-mat Specialist</li><li>➤ Environmental &amp; Pollution Control Technician</li><li>➤ Law Enforcement</li><li>➤ Facilities Maintenance</li><li>➤ Fire Science</li><li>➤ Paramedic Technician</li><li>➤ Security Loss Prevention</li></ul>		<ul style="list-style-type: none"><li>➤ Criminal Justice</li><li>➤ Environmental Law Enforcement</li><li>➤ Law</li><li>➤ Legal Studies</li><li>➤ Military Science (ROTC)</li><li>➤ Paralegal</li><li>➤ Public Administration</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
World Language Military History Communications	World Language Forensic Science Health Science Anatomy and Physiology Business Law	World Language Physics Ecology AP Biology AP Chemistry AP Psychology Advanced Communications Start College Now Early College Credit Youth Apprenticeship



# Manufacturing

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ HVAC Tech</li><li>➤ Appliance Tech</li><li>➤ Applied Engineering Technology</li><li>➤ Automated Manufacturing Systems Tech.</li><li>➤ Bio-Medical Electronics</li><li>➤ Chemical Technician</li><li>➤ Civil Engineering Technology</li><li>➤ CNC Technician</li><li>➤ Electrical Engineering Technology</li><li>➤ Fluid Power Maintenance</li><li>➤ Utility Construction &amp; Service</li><li>➤ Electricity</li><li>➤ Electro-Mechanical Technology</li><li>➤ Electron Microscopy</li><li>➤ Electronics</li><li>➤ Engine Machining Technician</li><li>➤ Facilities Maintenance</li><li>➤ Industrial Maintenance Tech</li><li>➤ Instrumentation</li><li>➤ Machine Tool</li><li>➤ Mechanical Design</li><li>➤ Small Engines</li><li>➤ Quality Assurance Tech</li><li>➤ Tool and Die</li></ul>		<ul style="list-style-type: none"><li>➤ Biomedical Engineering</li><li>➤ Chemical Engineering</li><li>➤ Civil Engineering</li><li>➤ Electrical Engineering</li><li>➤ Mechanical Engineering</li><li>➤ Occupational Safety</li><li>➤ Software Engineering</li><li>➤ Paper Science</li><li>➤ Manufacturing</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Introduction to Technology Woods I Engine Technology Plastics Technology Architectural Design Computer Applications (DC)	Woods II Welding and Fabrication I/ II (DC) Machining I (DC) Construction Technology IT Essentials (DC) AP Computer Science Principles	Advanced Technology Engineering Concepts AP Chemistry AP Calc AB AP Calc BC AP Statistics Start College Now Early College Credit Youth Apprenticeship



# Marketing

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Administrative Assistant</li><li>➤ e-Commerce/Web Administration</li><li>➤ Fashion Marketing</li><li>➤ Global Business Specialist</li><li>➤ Hotel &amp; Restaurant Management</li><li>➤ Hotel/Hospitality Management</li><li>➤ Marketing</li><li>➤ Marketing &amp; Graphic Communications</li><li>➤ Meeting &amp; Event Management</li><li>➤ Recreation Management</li><li>➤ Retail Management</li><li>➤ Small Business Operation</li><li>➤ Technical Communications</li><li>➤ Travel Services</li><li>➤ Web Developer</li></ul>		<ul style="list-style-type: none"><li>➤ Business Administration</li><li>➤ Entrepreneurship</li><li>➤ Hotel and Restaurant Management</li><li>➤ Marketing</li><li>➤ International Business</li><li>➤ Graphic Communication Management</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
World Language Computer Applications (DC) Intro to Business Intro to Marketing Communications Cultural Geography Communication Technology - Photo Communication Technology - Video	World Language Business Law Small Business Management IT Essentials (DC) Accounting I (DC) Graphic Design	World Language Accounting II Food Science (ES) Advanced Communications Start College Now Early College Credit Youth Apprenticeship



## Science, Technology, Engineering and Mathematics

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Power Engineering &amp; Boiler Operator</li><li>➤ Applied Engineering Technology</li><li>➤ Bio-Medical Electronics</li><li>➤ Chemical Technician</li><li>➤ Civil Engineering Technology</li><li>➤ Electron Microscopy</li><li>➤ Electronic Engineering Tech</li><li>➤ Industrial Engineering Tech</li><li>➤ Agri-Business/Science Tech</li><li>➤ Biotechnology Laboratory Technician</li><li>➤ Environmental &amp; Pollution Control Tech</li><li>➤ Health Physics Technician</li><li>➤ Laboratory Animal Technician</li><li>➤ Veterinary Technician</li></ul>		<ul style="list-style-type: none"><li>➤ Astronomy</li><li>➤ Biochemistry</li><li>➤ Hydrogeology and Water Chemistry</li><li>➤ Civil Engineering</li><li>➤ Chemical Engineering</li><li>➤ Math-Engineering</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
Intro to Agriculture Intro to Technology Intro to Business Computer Applications (DC) Engine Technology Plastics Technology Architectural Design	Large Animal Science Small Animal Care Health Science IT Essentials (DC) Health Science Machining I (DC) AP Computer Science Principles	Veterinary Science Ecology Advanced Technology Engineering Concepts Machining II Pre-Calculus AP Biology AP Chemistry AP Statistics AP Calculus AB AP Calculus BC Physics Start College Now Early College Credit Youth Apprenticeship



## Transportation, Distribution and Logistics

Occupations Relating to this Career Cluster		
Technical College		College/University
<ul style="list-style-type: none"><li>➤ Aeronautics / Pilot Training</li><li>➤ Aircraft Electronics</li><li>➤ Auto Collision Repair &amp; Refinishing</li><li>➤ Automotive Technician</li><li>➤ Civil Engineering Technology/Highway Tech</li><li>➤ Diesel &amp; Heavy Equipment Technician</li><li>➤ Diesel &amp; Power Training Services</li><li>➤ Engine Machining Tech</li><li>➤ Engine Technology</li><li>➤ Land Survey Technician</li><li>➤ Logistics</li><li>➤ Marine Repair Technician</li><li>➤ Materials Planning &amp; Control Tech</li><li>➤ Motorcycle, Marine, &amp; Outdoor Power Products</li><li>➤ Quality Management</li><li>➤ Truck Driving</li></ul>		<ul style="list-style-type: none"><li>➤ Civil Engineering</li><li>➤ Electrical Engineering</li><li>➤ Environmental Science and Protection</li><li>➤ Environmental Science</li><li>➤ Geology</li><li>➤ Health and Safety Management</li><li>➤ Industrial Health and Safety Engineering</li><li>➤ International Logistics</li><li>➤ Logistician</li><li>➤ Logistics Analyst</li><li>➤ Logistics Engineering</li><li>➤ Logistics Management</li><li>➤ Safety Analyst</li><li>➤ Transportation Management</li></ul>
Related Elective Courses at Waterloo High School		
Grade 9-12	Grade 10-12	Grade 11-12
World Language Intro to Technology Engine Technology	World Language Welding and Fabrication I/II (DC) Machining I (DC) Health Science	World Language Machining II Engineering Concepts AP Statistics Pre-Calculus AP Calculus AB AP Calculus BC Physics Ecology Start College Now Early College Credit Youth Apprenticeship



# Course List 2024-25

<u>Agriculture</u>		Credits	Grades Eligible to Take
AGR101	Introductory Agriculture	0.5	9-12
AGR102	Ag-Business Management	0.5	10-12
AGR201	Large Animal Science	0.5	10-12
AGR202	Small Animal Care	0.5	10-12
AGR301-302	Horticulture	1.0	10-12
AGR303	Veterinary Science	0.5	11-12
AGR401-402	Food Science ES	1.0	11-12
<u>Art</u>		Credits	Grades Eligible to Take
ART101-102	Art I	1.0	9-12
ART103	Art II	0.5	10-12
ART201	Drawing	0.5	10-12
ART202	Drawing Studio	0.5	10-12
ART301	Painting	0.5	10-12
ART302	Painting Studio	0.5	10-12
ART401	Ceramics	0.5	10-12
ART402	Ceramic Studio	0.5	10-12
ART501	Graphic Design	0.5	10-12
ART502	Art Metalwork	0.5	10-12
<u>Business Education</u>		Credits	Grades Eligible to Take
BUS101	Introduction to Business	0.5	9-12
BUS102	Introduction to Marketing	0.5	9-12
BUS103-104	Computer Applications <b>(Dual Credit)</b>	1.0	9-12
BUS201	IT Essentials <b>(Dual Credit)</b>	0.5	10-12
BUS202	Business Law	0.5	10-12
BUS203	Small Business Management	0.5	10-12
BUS301-302	Accounting I <b>(Dual Credit)</b>	1.0	10-12
BUS303-304	Accounting II	1.0	11-12
BUS401	Game Design	0.5	11-12
<u>English</u>		Credits	Grades Eligible to Take
ENG101-102	English 1 <b>REQUIRED</b>	1.0	9
ENG201-202	English 2 <b>REQUIRED</b>	1.0	10
ENG203-204	Honors English 2	1.0	10
ENG301-302	English 3 <b>REQUIRED</b>	1.0	11
ENG501	Creative Writing	0.5	9-11
ENG502	Communications	0.5	9-12
ENG503	Advanced Communications	0.5	11-12
ENG601-602	AP Eng. Language and Composition	1.0	11-12
ENG603-604	AP Eng. Literature and Composition	1.0	11-12
ENG701-702	ESL Language Acquisition	1.0	9-12

<b>Mathematics</b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
MTH101-102	Algebra <b>REQUIRED</b>	1.0	9
MTH103-104	Algebra A/B	1.0	9
MTH201-202	Geometry <b>REQUIRED</b>	1.0	9-11
MTH203-204	Geometry A/B	1.0	9-11
MTH301-302	Algebra 2	1.0	10-12
MTH303-304	Math Skills and Reasoning	1.0	10-12
MTH401-402	Pre-Calculus	1.0	11-12
MTH403-404	AP Calculus AB	1.0	11-12
MTH405-406	AP Calculus BC	1.0	12
MTH407-408	AP Statistics	1.0	11-12
MTH409-410	AP Computer Science Principles	1.0	10-12
<b>Music</b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
MUS101-102	Concert Choir	1.0	9-12
MUS201-202	Concert Band	1.0	9-12
MUS301	Music Theory	0.5	9-12
<b>Physical Education/Health</b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
HLT101	Current Health Topics	0.5	9-12
PHY101	Phy Ed 9 <b>REQUIRED</b>	0.5	9
PHY201	Individual/Lifetime Sports	0.5	10-12
PHY202	Team Sports	0.5	10-12
PHY203	Strength & Conditioning	0.5	10-12
PHY204	Advanced Strength & Conditioning	0.5	11-12
PHY205	Lifestyle Fitness	0.5	11-12
<b>Science</b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
SCI101-102	Biology <b>REQUIRED</b>	1.0	9
SCI201-202	<i>Physical Science</i> <b>REQUIRED</b> or	1.0	10
SCI203-204	<i>Chemistry</i> <b>REQUIRED</b>	1.0	10-12
SCI301-302	Anatomy and Physiology	1.0	10-12
SCI303	Forensic Science	0.5	10-12
SCI304	Health Science	0.5	10-12
SCI305	Genetics	0.5	10-12
SCI401-402	AP Biology	1.0	10-12
SCI403-404	AP Chemistry	1.0	11-12
SCI405-406	Physics	1.0	11-12
SCI501	Ecology	0.5	11-12

<b><u>Social Studies</u></b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
SOC101-102	World History <b>REQUIRED</b>	1.0	9
SOC201-202	United States History 10 <b>REQUIRED</b>	1.0	10
SOC203-204	United States History 11 <b>REQUIRED</b> or	1.0	11
SOC205-206	AP United States History <b>REQUIRED</b>	1.0	11
SOC301	Cultural Geography	0.5	9-12
SOC302	Military History	0.5	9-12
SOC303	Sociology	0.5	11-12
SOC304	Economic and Political Systems	0.5	11-12
SOC401-402	AP Psychology	0.5	11-12
SOC403-404	AP European History	1.0	11-12
SOC405	Contemporary US History	0.5	11-12
SOC406	Latin American History	0.5	12
<b><u>Technology Education</u></b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
TED001	Communication Technology – Photo	0.5	9-12
TED002	Communication Technology – Video	0.5	9-12
TED101	Intro to Technology	0.5	9-12
TED102	Engine Technology	0.5	9-12
TED103	Plastics Technology	0.5	9-12
TED104	Woods I	0.5	9-12
TED105	Woods II	0.5	10-12
TED106	Architectural Design	0.5	9-12
TED107	Construction Technology	0.5	10-12
TED201	Welding and Fabrication I <b>(Dual Credit)</b>	0.5	10-12
TED202	Welding and Fabrication II <b>(Dual Credit)</b>	0.5	10-12
TED301	Machining I <b>(Dual Credit)</b>	0.5	10-12
TED302	Machining II	0.5	11-12
TED401	Engineering Concepts	0.5	11-12
TED402	Advanced Technology	0.5	11-12
<b><u>World Languages</u></b>		<b>Credits</b>	<b>Grades Eligible to Take</b>
WLA101-102	Spanish I	1.0	9-12
WLA201-202	Spanish II	1.0	9-12
WLA301-302	Spanish III	1.0	10-12
WLA401-402	Spanish IV	1.0	10-12

Other Required Courses		Credits	Grades Eligible to Take
OTH101	Career Skills <b>REQUIRED</b>	0.25	10
OTH102	Personal Finance <b>REQUIRED</b>	0.25	10
Other Elective Options		Credits	Grades Eligible to Take
OTH203-204	Study Skills (Recommendation Only)	0.25/Term	9-12
See Counselor	Online Courses	Varies	9-12
See Counselor	Independent Study	Varies	9-12
OTH301-302	Mentorship - K-8 (Pass/Fail)	0.5-2.0	11-12
OTH303-304	Mentorship - High School (Pass/Fail)	0.5-2.0	11-12
See Counselor	Youth Apprenticeship (Pass/Fail)	Varies	11-12
See Counselor	School Supervised Work Experience (Pass/Fail)	0.5-2.0	12
See Counselor	Start College Now <i>Requires Board Approval</i>	Varies	11-12
See Counselor	Early College Credit <i>Requires Board Approval</i>	Varies	11-12

## Course Descriptions

Agriculture			
Introductory Agriculture AGR101	0.5	9-12	<p>If you are interested in gaining an overview of Wisconsin and United States agriculture then this class is for you. We will cover topics including large animals, small animals, plants, FFA, leadership and much, much more! It is strongly recommended students enroll in Introductory Agriculture before taking other offered agriculture classes.</p> <p><b>Prerequisite: None</b></p>
Ag Business Management AGR102	0.5	10-12	<p>Are you looking to increase your leadership skills through business and agriculture? Ag Business Management focuses on personal finance, marketing plans, sales presentations, commodity marketing, and business designs. We will also be covering how to run and manage a profitable farming operation. This class is for students looking to learn more about sales, communications, journalism, marketing or any agriculture career.</p> <p><b>Prerequisite: None</b></p>
Large Animal Science AGR201	0.5	10-12	<p>This course explores the many aspects of livestock animal production including dairy and beef cattle, sheep and swine. Dairy goat and poultry production will also be addressed. Students will learn to identify the major breeds and to evaluate conformation of each species. General principles of animal nutrition, housing, health management, reproduction, and marketing will be covered plus specific requirements for each species. Hands-on activities include ration formulation, development of meat animal production plans and design of animal housing. Farm field trips will demonstrate the animal management principles covered. Class presentations by producers, veterinarians, ration advisors and others will increase student awareness of career opportunities in food animal production.</p> <p><b>Prerequisite: None</b></p>

# Agriculture

Small Animal Care AGR202	0.5	10-12	<p>This course provides students with practical knowledge of pet care and explores career opportunities in the pet industry. Care, management and, where appropriate, training of traditional pets such as cats, dogs, birds, fish, guinea pigs and hamsters and working animals like dogs and exotic animals such as reptiles and amphibians will be addressed. Topics include nutrition, health management, reproductive management, diseases, and safety. Students will be exposed to a wide variety of pet and companion animals in the classroom or on tours and will hear presentations and observe demonstrations by veterinarians, and other care workers such as kennel owners, trainers and groomers.</p> <p><b>Prerequisite: None</b></p>
Horticulture AGR301-302	1.0	10-12	<p>This class focuses on the world of plants and plant science. We will learn about greenhouse management, the functions of plants and agronomy. We will also cover plant propagation and landscaping. We will be working in the greenhouse to grow plants and vegetables to sell in our annual plant sales.</p> <p><b>Prerequisite: None</b></p>
Veterinary Science AGR303	0.5	11-12	<p>This class will provide instruction on general health care, small animal emergency responses, and nutrition of our favorite four-legged friends. This course provides students with a strong background in the medical field by covering topics such as sutures, bandaging, and physical exams. Students are taught how to diagnose and treat disease by covering topics including bacteriology, immunology, and physiology. It is strongly suggested that students take Small Animal Care or Large Animal Science before taking this class.</p> <p><b>Prerequisite: None</b></p>
Food Science (ES) AGR401-402	1.0	11-12	<p>This class is for anyone who eats! Understand food nutrition, biotechnology and chemistry of foods, food safety, dairy industry, meat science, beverages, consumerism, and food processing. Become an informed consumer and learn about the scientific world of foods. Students would gain a better understanding of the science that goes into the food they eat, whether it be grown or processed. We will also study the science behind flavoring, coloring and preserving. We will look into the differences and similarities between organically grown products and conventionally grown products as well as the pros and cons to genetically modified organisms.</p> <p><b>Prerequisite: None</b></p> <p><i>*This course is an option for the 3rd credit of Science per DPI approval.</i></p>

# Art

**Graduation Requirement:** 1 Credit of Fine Arts (Band, Choir or Art 1)

Art I ART101-102	1.0	9-12	<p>This course provides a general introduction into various media and techniques of art for the purpose of personal expression. Basic elements of color and design are explored. Students will receive a fundamental knowledge in the areas of drawing, painting, mixed media, printmaking, computers, sculpture, ceramics, and graphic design. Students will be able to choose from a wide range of materials. Certain items are useful for a large variety of projects and assignments and are required for all students taking Art I.</p> <p><b>Prerequisite: None</b></p>
Art II ART103	0.5	10-12	<p>This course carries on from Art I to let students continue to experiment and learn through a variety of mediums. Students will explore more techniques in painting, printmaking, drawing, sculpture and more. Different cultures will be studied as well as artists and art movements throughout history and contemporary.</p> <p><b>Prerequisite: Art I</b></p>
Drawing ART201	0.5	10-12	<p>Drawing deals with such media as pencil, conte crayons, pen and ink, charcoal, pastels, and mixed media. During the course a variety of paper, board, and mixed media techniques are explored. The course includes study and discussion of self-portraiture, landscapes, still life and fantasy drawings. Drawing I is geared towards a finished product.</p> <p><b>Prerequisite: Art I</b></p>
Drawing Studio ART202	0.5	10-12	<p>The emphasis for Drawing Studio is placed on originality, effort, and skill in using techniques acquired during the length of the course. The advanced student will study new styles and techniques in drawing and how to apply them to their own personal style. Different periods of Art History are examined and analyzed in relation to drawing techniques used by a variety of artists. Drawing Studio students must show a capacity for self-planning, individual research and a desire for developing a style of one's own. Senior students will need to photograph their work for competitions and for applying to a variety of art schools or colleges.</p> <p><b>Prerequisite: Art I and Drawing</b></p>

# Art

Painting ART301	0.5	10-12	<p>Students in Painting will study color theory and design in greater depth as it pertains to the process of painting techniques and styles. Media choices include watercolors, acrylics, oils, and mixed media/assemblage. Exposure to various styles of paintings such as Realism, Surrealism, Abstract, Expressionism, Op and Pop art, enables the student to develop a personal style of their own.</p> <p><b>Prerequisite: Art 1</b></p>
Painting Studio ART302	0.5	10-12	<p>Students will study and analyze famous paintings and artists of various periods throughout history. A variety of media will be explored including watercolor, tempera, acrylic, oil, gouache and mixed media. Emphasis is placed upon the individual's ability to experiment with a variety of materials, tools and techniques in order to establish a distinct style of one's own. Assembling and photographing senior paintings for competitions and for applying to various art schools or colleges will be a part of learning how to prepare a professional portfolio.</p> <p><b>Prerequisite: Art I and Painting</b></p>
Ceramics ART401	0.5	10-12	<p>In Ceramics, both hand-built techniques and wheel-thrown pottery are explored. The emphasis is on selecting the best materials and techniques for your ceramic problems. The student will receive a fundamental knowledge of texture, decoration, and glazing techniques. A variety of cultural backgrounds will be studied and used in both traditional and experimental ceramic problems.</p> <p><b>Prerequisite: Art I</b></p>
Ceramic Studio ART402	0.5	10-12	<p>Ceramic Studio students will complete a set of hand-built and thrown works with emphasis being placed upon developing a personal style of one's own. A variety of styles and periods in Ceramic History are studied to achieve a broad cultural background in this area. Students are expected to experiment with a variety of glazing techniques and keep an accurate record of results. Understanding stacking and kiln firing procedures is required. Completed works will be critiqued each grading period. In addition, outside drawing assignments and research is required. Senior students will need to photograph their ceramic pieces for competition and for applying to a variety of art schools or colleges.</p> <p><b>Prerequisite: Art I and Ceramics</b></p>



## Art

<p>Graphic Design ART501</p> <p>Offered in 2025-26</p>	0.5	10-12	<p>Graphic Design allows students to utilize a variety of media including drawing, typography, computer design, digital camera, and video. Students will explore a wide range of visual communication techniques with an emphasis on “real world” print -media. Students will study historical as well as more contemporary images. Projects include business cards, brochures, posters, layout designs for magazine and television ads. Cartooning, storyboards, and animation will also be introduced utilizing computer graphics. At times students will work together as a production team to create a final product.</p> <p><b>Prerequisite: Art I</b></p>
<p>Art Metalwork ART502</p> <p>Offered in 2024-25</p>	0.5	10-12	<p>Art Metalwork is for the student interested in designing and creating small sculpture and/or jewelry, using the basics of metalworking-piercing, sawing, forming, forging and soldering. Traditional and contemporary designs will be studied. We will work with copper, brass, nickel, silver and mixed media. Emphasis will be on safety, proper use of tools and materials as well as finishing and craftsmanship.</p> <p><b>Prerequisite: Art I</b></p>


## Business Education

<p>Intro to Business BUS101</p>	0.5	9-12	<p>Intro to Business will introduce you to the exciting and challenging world of business. Through activities you will increase your preparation to be a knowledgeable consumer, well-prepared employee, and effective citizen in our economy. During the last term of class, each student will run their own business through the Mean Jeans Manufacturing Co. simulation to put into practice the business skills learned.</p> <p><b>Prerequisite: None</b></p>
<p>Intro to Marketing BUS102</p>	0.5	9-12	<p>This introductory course will focus on exploring the world of marketing through various economic systems, fundamentals of salesmanship, product development, employment laws, and business security. Students will also investigate marketing careers including buying, selling, retailing, and wholesaling.</p> <p><b>Prerequisite: None</b></p>

# Business Education

<p>Computer Applications BUS103-104</p> 	1.0	9-12	<p>Computer Applications is a course designed for all students. Its purpose is to give the high school graduate a "head-start" in the job market (be it a full-time job, a part-time job, or a summer job while attending college). Employers are looking for high school graduates with good skills, knowledge of the business world, and positive attitudes.</p> <p>The integrated computer program, Microsoft Office Professional, which contains a word processing program (WORD), a slide presentation program (POWER POINT), a spreadsheet program (EXCEL), and a database program (ACCESS), will be studied in depth. Madison College (MATC) and the State of Wisconsin have adopted Microsoft Office Professional as their major computer applications software. Students who complete Computer Applications may have the opportunity to obtain MOS certification in WORD, Power Point, Excel or Access.</p> <p>Per an agreement with Madison College, students who complete Computer Applications with a final grade of C or better may be given Dual Credit for Beginning Word, Access, Excel, Power Point.</p> <p>*Note: 10<sup>th</sup> graders enrolling in this course are not eligible to receive credit from Madison College.</p> <p><b>Prerequisite: None</b></p>
<p>IT Essentials BUS201</p> 	0.5	10-12	<p>IT Essentials will focus on servicing PC's with hands-on emphasis in 5 major areas: Computer hardware; examination of various drives and memory usage of each; optimization and utilizing Windows 7, installation and configuration of Windows and printing; diagnostic evaluation of computer peripherals and components. At the completion of this course students will have a comprehensive understanding of how a computer functions.</p> <p>Per an agreement with Madison College, students who complete IT Essentials with a final grade of C or better may be given Dual Credit for A+ Hardware Essentials at Madison College.</p> <p>*Note: 10<sup>th</sup> graders enrolling in this course are not eligible to receive credit from Madison College.</p> <p><b>Prerequisite: None</b></p>

## Business Education

Business Law BUS202	0.5	10-12	<p>80% of all businesses in the United States are classified as small businesses. A student who may want to someday own his/her own business may want to take Entrepreneurship/Small Business Management.</p> <p>Students will take a look at what it takes to make a successful small business run. Management styles will be explored and students will learn to identify and describe different procedures needed in order to begin a small business. The final project will be presenting a business plan.</p> <p><b>Prerequisite: None</b></p>
Small Business Management BUS203	0.5	10-12	<p>This offering is designed to acquaint students with the basic legal principles relevant to each individual in his or her triple role of citizen, consumer, and employee. Content includes the origin of law, the court systems, criminal and civil law, rights and duties, basic elements of contracts, consumer protection, insurance, bailments, and legal affairs affecting property such as ownership, transfer, landlords and tenants. The law is interpreted through case studies. Students may also participate in a mock trial.</p> <p><b>Prerequisite: None</b></p>
Accounting I BUS301-302  	1.0	10-12	<p>Accounting I is a class for whose subject matter can be used by students in their daily lives or on the job. Students will learn the accounting cycle for a small business. This includes preparing balance sheets, income statements, reconciling bank statements, completing worksheets, and end of fiscal period work associated with operating a small business. Students will complete a simulation and will also have the opportunity to work with accounting computer software throughout the year.</p> <p>Per an agreement with Madison College, students who complete Accounting I with a final grade of C or better may be given Dual Credit for Accounting Principles (101-111) at Madison College.</p> <p>*Note: 10<sup>th</sup> graders enrolling in this course are not eligible to receive credit from Madison College.</p> <p><b>Prerequisite: None</b></p>

## Business Education

Accounting II BUS303-304	1.0	11-12	<p>Accounting II is a continuation of the Accounting I course using the same textbook. Accounting II will focus on plant assets, payroll accounting, accounting for partnerships, accounting for corporations, long-term liabilities, managerial accounting concepts and principles and cost accounting. Students will have the opportunity to work on accounting applications on a computer.</p> <p><b>Prerequisite: Accounting I</b></p>
Game Design BUS401	0.5	11-12	<p>No experience necessary! In this introductory level course, students will begin with “drag and drop” programming and work up to writing code and creating original computer games. Students learn math and physics concepts used in game development, how the engineering cycle is used to design games, the components of a good game, color theory used in game design, how to create sprites and animation, and much more.</p> <p><b>Prerequisite: None</b></p>

## English

**Graduation Requirement:** 4 Credits of English

English 1 ENG101-102  <b>REQUIRED</b>	1.0	9	<p>English 1 is a year-long course that focuses on exposing students to a wide variety of genres and writing styles, as well as foundational grammar skills. Students will examine short stories, novels, and poetry from notable authors such as Shakespeare and Harper Lee, in order to analyze the elements of literature and figurative devices used. Students will write informational essays, poetry, and narratives, as well as gain experience analyzing, annotating, and writing about literature.</p>
English 2 ENG201-202  <b>REQUIRED</b>	1.0	10	<p>English 2 is a year-long course that focuses on building foundational analysis and writing skills important for higher level English classes. We will examine short stories, narratives, novels, as well as nonfiction texts all centered on the theme of “dystopian societies”. We will also connect these dystopian themes to issues within our own societies, and present ideas through formal writing, presentations, and debates. Reading will occur independently, in groups, as well as for the whole class, and students will write using a variety of formats including reports, fictional stories, poetry, as well as argumentative essays.</p> <p><b>Prerequisite: English 1</b></p>

# English

<p>Honors English 2 ENG203-204</p> <p><b>Meets requirement for English 2.</b></p>	1.0	10	<p>Honors English 2 is an advanced course blending curriculum from English 2 and English 3. Semester 1 covers literary analysis, novel study of dystopian societies, and Semester 2 will connect American literature to current social issues. Students will develop important skills including literary analysis, essay composition, and critical reading. Class discussion and student-driven literary analysis is particularly emphasized in the Honors setting. This course will provide crucial development for students planning on taking AP English classes their junior and/or senior years. This course fulfills the English 2 requirement.</p> <p><b>Prerequisite: English 1</b></p>
<p>English 3 ENG301-302</p> <p><b>REQUIRED</b></p>	1.0	11	<p>English 3 is a year-long course focusing on American literature. Students will examine various Literary Movements, including early American literature, Romanticism, Transcendentalism, Modernism and contemporary American literature. We will examine literature within its cultural context so students can formulate how social values, historical events, and literature fluidly impact one another. Students will develop important skills including literary analysis, essay composition, and critical reading.</p> <p><b>Prerequisite: English 2</b></p>
<p>English 4 ENG401-402</p> <p><b>REQUIRED</b></p>	1.0	12	<p>English 4 is a year-long course focusing on British, World, and Contemporary Literature. Students will examine universalities in literature from across various cultures and time periods. Students will apply critical and psychological theories to literature, and further develop important critical reading and writing skills. Workplace and practical applications of writing are also studied.</p> <p><b>Prerequisite: English 3</b></p>
<p>Creative Writing ENG501</p> <p>Available to Grades 9-12 in 2025-26</p>	0.5	9-11	<p>Creative Writing focuses on developing craft and voice through multi-draft writing. This elective allows students creative flexibility in exploring different writing genres. Over the course of the semester we will cover writing memoir, short stories, satire, poetry, and multi-genre pieces.</p>
<p>Communications ENG502</p>	0.5	9-12	<p>Communications is a semester course that focuses on public speaking. Students will learn how to give a variety of different speeches including informative, demonstration, and persuasive. Students will be required to research and properly cite sources. Students will learn about different methods of organization, and ways to introduce and conclude speeches. Students will also practice narrative speaking, presenting in groups, and incorporating technology.</p>

# English

Advanced Communications ENG503	0.5	11-12	<p>Advanced Communications is a semester course that focuses on public speaking and writing skills. This course is for juniors and seniors who would like more practice in speech writing and delivery. A variety of speeches will be practiced throughout the course. Students will also participate in group presentations and work with technology. This course cannot be used to satisfy English graduation requirements.</p> <p><b>Prerequisite: English 1, English 2 &amp; Communications</b></p>
<p>AP Language and Composition ENG601-602</p> <p><b>Meets the requirement for English 3 or 4.</b></p> <p>Offered in 2025-26</p>	1.0	11-12	<p>This course challenges students to evaluate arguments in texts and images all around us. Throughout the course, students will study a diverse selection of nonfiction and multimedia. Students will learn classical models of argumentation to evaluate writing and to craft their own persuasive arguments. We will also examine how authors craft rhetoric in fiction to develop ideas and themes. Consistent preparation for the AP exam will be integrated into the curriculum. Students will have the option to take the AP English Language &amp; Composition exam at the end of the course. The cost of the AP exam to the student is \$98.</p> <p><b>Recommended C or better in prior English courses.</b></p>
<p>AP Literature and Composition ENG603-604</p> <p><b>Meets the requirement for English 3 or 4.</b></p> <p>Offered in 2024-25</p>	1.0	11-12	<p>This course explores the artistry of various literary forms, including novels, drama, poetry, and short fiction. We will examine the importance of form and style across genres, and students will engage in scholarly review of challenging literary texts. In preparation for the AP English Literature and Composition exam, students will read, respond, and analyze different literary forms in timed essays, out-of-class compositions, and student discussions. Students will have the option to take the AP English Literature and Composition exam at the end of the course (cost for exam is approximately \$98.00).</p> <p><b>Recommended C or better in prior English courses.</b></p>
ESL Language Acquisition (Recommendation Only) ENG701-702	1.0	9-12	<p>This course is for students that are English Language Learners and focuses on the four language acquisition skills; reading, writing, speaking, and listening. In this course students will continuously build on the four language skills for everyday and essential academic purposes. Content focuses on the six Wisconsin Anchor Standards for Language</p> <p><b>This is a multi-aged 1 credit course that would count towards English credit.</b></p> <p><b>Prerequisite - 2.0 or below on the ACCESS test, teacher recommendation</b></p>

# Mathematics

## Graduation Requirement: 3 Credits of Math

Algebra MTH101-102  <b>REQUIRED</b>	1.0	9	<p>This course expands on the algebra concepts introduced in middle school. Students will solve equations, inequalities and systems of equations. This will include quadratic and simple exponential equations. Students will learn function notation and develop and apply their understanding of linear, exponential and quadratic relationships. The study of exponents will include rational exponents. Students will also investigate trends and model relationships using statistics.</p> <p><b>Prerequisite: None</b></p>
Algebra A/B (Recommendation Only) MTH103-104	1.0	9	<p>This is a 1 credit course in combination with Algebra I for students who do not meet prerequisites for Algebra 1. The course expands on algebraic concepts taught in middle school while reinforcing essential pre-algebra skills. Students will solve equations, inequalities and systems of equations. This will include quadratic and simple exponential equations. Students will learn function notation and develop and apply their understanding of linear, exponential and quadratic relationships. The study of exponents will include rational exponents. Students will also investigate trends and model relationships using statistics.</p>
Geometry MTH201-202  <b>REQUIRED</b>	1.0	9-11	<p>In this course, students will study transformations of figures and the concepts of congruence and similarity. Students will develop understanding of the properties of angles, triangles and quadrilaterals. Other topics studied include trigonometry, properties of circles and probability. Students will use their knowledge of many of these concepts to develop logical arguments and formal proofs.</p> <p><b>Prerequisite for incoming 9th graders: Score of C or better in Algebra 1.</b></p> <p><b>Prerequisite for current 9<sup>th</sup>-11<sup>th</sup> graders: Algebra 1</b></p>
Geometry A/B (Recommendation Only) MTH203-204	1.0	9-11	<p>This is a 1 credit elective course in combination with Geometry for students who need extra support in Geometry. In this course, students will study transformations of figures and the concepts of congruence and similarity. Students will develop understanding of the properties of angles, triangles and quadrilaterals. Other topics studied include trigonometry, properties of circles and probability. Students will use their knowledge of many of these concepts to develop logical arguments and formal proofs.</p>

# Mathematics

Algebra 2 MTH301-302	1.0	10-12	<p>This course builds on students' understanding of linear, quadratic and radical functions. Polynomial and rational functions and equations will also be studied. They will also learn how to use logarithmic functions to solve exponential equations. The study of trigonometric functions will be extended to include modeling periodic functions. Other topics include probability distributions and statistics.</p> <p><b>Prerequisite: C or better in Geometry, consent of instructor, or concurrently taking Geometry with consent of the instructor.</b></p>
Math Skills and Reasoning MTH303-304	1.0	10-12	<p>This course is designed to improve students' algebraic skills and prepare them for higher-level mathematics. Learners will develop algebraic problem solving techniques while studying proportional relationships, linear equations and inequalities, exponents, factoring, quadratic equations, and rational expressions. Students will apply the mathematics learned and develop mathematical models for real-world situations. This course is recommended for students attending a two-year technical college or those who want to improve their math skills before taking Algebra 2 as a senior.</p> <p><b>Prerequisite: Students who complete Algebra II with a C or better are not recommended to enroll in this class.</b></p> <p><b>*Note: This course may not satisfy the third credit of math required at a 4-year college.</b></p>
Pre-Calculus MTH401-402	1.0	11-12	<p>This course will provide students with the skills needed for college mathematics courses. Topics include trigonometry, polynomial and rational functions, exponentials and logarithms, vectors, polar coordinates, conics and parametric functions, matrices, and series. The study of functions, graphs, limits, area under a curve, and rates of change will introduce students to calculus. Students will use technology to investigate concepts and make connections between graphical, numerical, algebraic and verbal representations of concepts.</p> <p><b>Prerequisite: C or better in Algebra 2 or consent of the instructor.</b></p>

# Mathematics

AP Calculus AB MTH403-404	1.0	12	<p>This course will provide an introduction to differential and integral calculus. Topics include limits and continuity, derivatives, definite integrals and the Fundamental Theorem of Calculus. Students will apply their knowledge of these concepts and make connections between the graphical, numerical, algebraic and verbal representations of them. This course is based on college-level material and will prepare students to take the AP Calculus AB exam in May. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: C or better in Pre-Calculus or consent of the instructor.</b></p>
AP Calculus BC MTH405-406	1.0	12	<p>AP Calculus BC is an extension of Calculus AB. The course will begin with a review of AB topics emphasizing the application of differentiation and integration. New topics will include logarithmic and parametric differentiation, advanced techniques of integration, and a detailed study of sequences and series. This course is based on college level material and will prepare students for the AP Calculus BC exam in May. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: AP Calculus AB</b></p>
AP Statistics MTH407-408	1.0	11-12	<p>This is a rigorous course based on college level material. Topics studied will include exploring data, sampling and experimentation, anticipating patterns using simulation, and statistical inference. Students will work on projects in which they apply concepts by gathering and analyzing real world data. Students will have the opportunity to take the AP Statistic exam at the end of the school year. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: C or better in Algebra 2 or consent of the instructor.</b></p>

# Mathematics

AP Computer Science Principles MTH409-410	1.0	10-12	<p>Computer science involves problem-solving, hardware, and algorithms that help people utilize computers and incorporate multiple perspectives to address real-world problems in contemporary life. As the application of computer science is integrated into more aspects of our lives, it is important to understand the impact of computer science and how to maintain privacy, safety, and security not only when using computers but also while being the innovators of new computing applications. The course strives to engage all students, including those who have traditionally been underrepresented in computer science—such as female students, students of color, students with disabilities, and rural students—by allowing them to discover the power of computer science through rewarding yet challenging concepts. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisites: Teacher recommendation and strong knowledge and understanding of Algebraic concepts. Students have to have passed Algebra with a C or higher or have teacher recommendation</b></p> <p>** Can either be a Math credit or an elective credit:</p>
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# Music

**Graduation Requirement:** 1 Credit of Fine Arts (Band, Choir or Art 1)

Concert Choir MUS101-102	1.0	9-12	<p>Students enrolled in Senior High Concert Choir participate in rehearsals that emphasize proper vocal technique, ear training, music theory and appreciation and excellent performance practices. The goal of the course is to provide a positive and expert musical experience in choral music. Students must be willing to sing a variety of styles and genres of music and are required to participate in concerts given for the public outside the school day as well as the WSMA Choral Festival, which will take place during the school day. Other required school performances may include Homecoming, the Veterans Day assembly, and graduation.</p> <p>Students are graded on daily rehearsal participation, written or listening assignments, concert participation and lessons. These lessons will be individual or small groups and will focus on a variety of musical concepts including reading music, vocal tone, sight singing, rhythm, dynamics, pitch and harmony.</p> <p>Optional activities related to vocal music may include on-stage parts in the school musical, WSMA Solo and Ensemble District Festival participation, fund-raising, summer music camp, field trips, and auditioned ensembles.</p> <p>Students are expected to provide black shoes, black stockings or nylons, black skirt or slacks and a black shirt or blouse for concert performances.</p> <p><b>Prerequisite: None</b></p>
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# Music

Concert Band MUS201-202	1.0	9-12	<p>Concert Band Solo/Ensembles</p> <p>Instrument Rental: \$50.00 per semester for school provided instrument. Fees must be paid before the instrument will be issued.</p> <p>Students enrolled in Senior High Band participate in regular rehearsals that emphasize proper instrumental techniques, music theory, ear training, music appreciation and performance skills. The goal of the course is to create comprehensive musicians through performance. Students must participate in scheduled performances and events to include but not limited to: concerts, pep bands, parades, homecoming activities, Veterans Day performances, honors band, marching band and graduation. Cheerleaders, individuals on homecoming court and game athletes will be excused from individual pep band performances or Homecoming shows only as required. Many of these events are outside the school day or on weekends. All students will be required to prepare a selection for solo-ensemble.</p> <p>Additionally, each student will attend a weekly individual or small group lesson. These lessons will focus on a variety of musical concepts including beat and meter, dynamics, harmony, melody, pitch and rhythm.</p> <p>Students are expected to provide black socks, dress shoes, black pants/skirt and a black shirt for concerts. Students will also need to provide an instrument in good working condition, a method book and supplies needed for routine maintenance.</p> <p><b>Prerequisite: Middle School Band or instructor consent, ability to read music, ability to attend all performances.</b></p>
Music Theory MUS301	0.5	9-12	<p>In this course, students learn foundational principles of music theory including: notes, rhythms, intervals, chord construction, and harmonic progressions. Basic arranging and analytical techniques are also explored related to traditional, classical, and popular music styles.</p> <p>Prerequisite: None</p>

## Physical Education/Health

Students may earn a total of 2.5 Physical Education credits during their high school career.

**Phy Ed Graduation Requirement:** 1.5 Credits

**Health Graduation Requirement:** 0.5

Current Health Topics HLT101  <b>REQUIRED</b>	0.5	9-12	This is an online course for students that did not fulfill the health requirement in middle school. The course will deal with current topics and issues in health, and health related careers.  <b>Prerequisite: None</b>
Physical Education 9 PHY101  <b>REQUIRED</b>	0.5	9	This course will introduce lifelong fitness planning where students participate in individual and team activities in a variety of indoor and outdoor settings. Students will be assessed in team sports, individual sports, and physical activity. Students will use fitness concepts to achieve and maintain health-enhancing levels of physical fitness. Personal fitness will be monitored using pedometers and heart-rate monitors.
<b>Students must select two of the five following choices to fulfill the remaining 1.0 credit of required physical education.</b>			
Individual/Lifetime Sports PHY201	0.5	10-12	Individual/Lifetime Sports will provide students with the opportunity to experience a variety of individual activities that can provide lifelong fitness and wellness. Activities offered may include: archery, badminton, tennis, fitness, golf, water exercise, Frisbee golf, snowshoeing, cross-country skiing, volleyball, and pickleball. These activities are designed to provide motivation to develop and maintain a healthy active lifestyle.
Team Sports PHY202	0.5	10-12	Team sports will provide students with the opportunity to experience a variety of team sports which can be an avenue to lifetime fitness and wellness. Activities offered may include: basketball, volleyball, flag football, soccer, speedball, softball, Lacrosse, floor hockey, ultimate Frisbee, water polo and other water sports. These activities are designed to provide motivation to develop and maintain a healthy active lifestyle.
Strength & Conditioning PHY203	0.5	10-12	Students will learn strength training exercises, along with expanded conditioning, speed, agility, plyometrics, and core strength. Students will create their own personal fitness workouts based on an endurance approach or power approach. Aquatic conditioning as well as other means of exercise may be incorporated into this class.

## Physical Education/Health

Advanced Strength & Conditioning PHY204	0.5	11-12	<p>This is an advanced physical education class for students interested in achieving their highest level of health-related fitness. Class activity emphasizes improving health-related fitness through weight training, exercises, and running programs.</p> <p><b>Prerequisite:</b> <b>Strength &amp; Conditioning or teacher recommendation</b></p>
Lifestyle Fitness PHY205	0.5	11-12	<p>This class would be offered to students who are interested in learning more about how to maintain a healthy active lifestyle beyond just weight training and traditional physical education activities. This class will touch on the importance of the 8 different dimensions of wellness.</p> <p><b>Prerequisite: None</b></p>

## Science

**Graduation Requirement: 3 Credits**

Biology SCI101-102  <b>REQUIRED</b>	1.0	9	<p>This course will be taken by all incoming freshmen. It will introduce the students to basic biological principles of the living world. Students will study the characteristics, structures, and environmental relationships of living things from a simple one-celled organism to more complex organisms.</p>
Physical Science SCI201-202  <b>REQUIRED</b>  Required unless Chemistry is taken.	1.0	10	<p>This course will give an introductory study to the fields of chemistry and physics. Students will gain knowledge in making scientific observations by performing simple experiments, recording objective results and comprehending common "laws" of science. This course is designed for students who would like a year to build science and math skills before taking chemistry. Please ask a science teacher to help you determine the best course placement for you.</p>
<b>Physical Science ↑ OR Chemistry ↓ must be completed to satisfy the second science credit.</b>			
Chemistry SCI203-204  <b>REQUIRED</b>  Required unless Physical Science is taken.	1.0	10-12	<p>This course will introduce students to the study of the composition of matter and the changes that matter undergoes. Key units studied will include experimental design, atomic structure, bonding, the mole, chemical equations, gas laws, and solution chemistry. Laboratory skills will be developed and students will apply quantitative reasoning to analyze collected data.</p> <p><b>Prerequisite(s): Biology and Algebra</b></p>

## Science

Anatomy and Physiology SCI301-302	1.0	10-12	<p>This course is an introductory study of human body structures and physiological functions. The course begins at the molecular level and builds to a study of each of the body systems. Laboratories, dissections, and research-based projects are an integral part of this course.</p> <p><b>Prerequisite: C or better in Biology, completion of or concurrent enrollment in Chemistry or consent of teacher.</b></p>
Forensic Science SCI303	0.5	10-12	<p>Forensic science gives students the opportunity to apply various aspects of science to criminal justice. Students will learn about different types of evidence and how they are collected and analyzed while applying concepts from biology, chemistry, and physics. They will use these pieces of evidence to make and justify claims. This class will place a focus on science practice skills, such as asking questions, analyzing and interpreting data, and engaging in argument from evidence.</p> <p><b>Prerequisite: Biology, completion of or concurrent enrollment in Chemistry</b></p>
Health Science SCI304	0.5	10-12	<p>Health science is designed to introduce students to the healthcare field and the skills needed for a career in healthcare. Students will learn about careers in healthcare, infection control, medical ethics, and public health efforts, as well as practice using medical terminology and interpreting medical data.</p> <p><b>Prerequisite: Biology, completion of or concurrent enrollment in Chemistry.</b></p>
Genetics SCI305	0.5	10-12	<p>This course is an in-depth study of genetic inheritance and biotechnology. Genetics will be looked at on both a physical and chemical level. Students will complete laboratory activities including DNA extraction, gel electrophoresis, and genetic crossing. They will also research and debate bioethical issues and learn about new developments in the field of biotechnology.</p> <p><b>Prerequisite: C or better in Biology</b></p>

## Science

AP Biology SCI401-402	1.0	10-12	<p>This course focuses on four main ideas: (1) Evolution drives the diversity and unity of life, (2) Free energy and molecular building blocks are necessary to grow, reproduce, and maintain homeostasis, (3) Living systems store, retrieve, transmit, and respond to information, and (4) Biological systems interact in complex ways. This course will include laboratory experiments and analysis of scientific data. This is a rigorous course based on college level material and will prepare students to take the AP Biology exam in May for college credit. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: C or better in Biology, completion of or concurrent enrollment in Chemistry.</b></p>
AP Chemistry SCI403-404	1.0	11-12	<p>This course emphasizes laboratory activities and a mathematical approach to problem solving. It builds and expands on the material covered in chemistry. Areas of study include stoichiometry, solution chemistry, gas laws, atomic structure, equilibrium, and bonding. This is an advanced chemistry course based on college level material and will prepare students to take the AP Chemistry exam in May for college credit. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: C or better in Chemistry</b></p>
Physics SCI405-406	1.0	11-12	<p>In this algebra-based course, students will develop a conceptual understanding of basic physics principles by engaging in lab activities and discussions. Topics to be investigated include mechanics; work, energy, and power; mechanical waves and sound; light and ray optics and introductory, simple circuits.</p> <p><b>Prerequisite: Algebra 2</b></p>
Ecology SCI501	0.5	11-12	<p>This course will give a detailed look into the earth and earth systems and how they interrelate. Ecological concepts relating to the earth will be explored along with man's impact upon the living and non-living systems on earth. The course covers tectonics, mapping, oceanography, meteorology and planetary interactions in the solar system and ecological concepts such as energy flow, succession, the atmosphere, water, food production, and energy sources.</p> <p><b>Prerequisite: Biology</b></p> <p><b>**Note:</b> This course does not satisfy the requirement of a "lab science" for a 4-year college.</p>

# Social Studies

## Graduation Requirement: 3 Credits

World History SOC101-102  <b>REQUIRED</b>	1.0	9	This course focuses on selected civilizations and cultures of the world from earliest time to the present. It will include topics on world religions and philosophies, government systems, and political, social, and economic changes. The course examines the rise of early civilizations, including Greece and Rome, through the development of the early modern state.
United States History 10 SOC201-202  <b>REQUIRED</b>	1.0	10	This course traces the movements in Europe that led to the exploration and settlement of America. It will include major events from the Age of Discovery through the Industrial Revolution. The content will include federal, state, and local government. Highlights of the course are colonization, the American Revolution, Constitutional Convention, the Bill of Rights, and the Civil war. The ultimate purpose is to enable each student to appreciate the legacy of our heritage and to develop his or her own definition of what it means to be an "American".
United States History 11 SOC203-204  <b>REQUIRED</b>	1.0	11	This course will focus on the growth of the United States as an economic and military world power. Emphasis will be placed on comparing the past with current events. It will include major events from the 1900s. Highlights of the course are the Westward Movement, imperialism, the Spanish-American War, World War I, the Roaring 20s, the Great Depression, World War II, the Korean War, the Civil Rights Movement and the Vietnam War.  <b>Required unless AP US History is taken.</b>
AP United States History SOC205-206  <b>Meets graduation requirement for US History 11.</b>	1.0	11	AP United States History is a year-long course in which students will focus on using primary and secondary sources to study the political, economic, and social issues throughout U.S. History from colonization through the present. Some of the central themes and topics will be the birth of the republic, westward expansion, the dilemma of liberty and slavery, disunion, civil war and reunion, immigration, industrialization and reform, world wars, and the search for equality. Students will take an active role in reading, discussion, and writing about the lives of everyday people within the context of their historical time period. This is a rigorous course based on college level material. Students will have the opportunity to take the AP test in U.S. History at the completion of the AP United States History course. The cost of the AP exam to the student is \$98.  <b>Prerequisite: None</b>

## Social Studies

Cultural Geography SOC301	0.5	9-12	<p>Cultural Geography: Study of cultures &amp; geography around the world. The World Geography course provides students with a view of how geographic factors have and continue to influence human behavior on earth. Students will examine how the physical and cultural geographic factors contribute to varying levels of cooperation within the major world regions. Additionally, students will examine the importance that political, environmental, and economic factors have in a region's development.</p> <p><b>Prerequisite: None</b></p>
Military History SOC302	0.5	9-12	<p>Military History: Study of military conflicts &amp; revolutions throughout modern history. This course would cover the basic creation of our different branches of the military and then move on to cover the major American conflicts. It would look at important people, strategies, outcomes, and events that have shaped our country's military from the days of the colonial militia to our current involvement in foreign conflicts.</p> <p><b>Prerequisite: None</b></p>
Sociology SOC303	0.5	11-12	<p>This course is directed toward providing students with a better understanding of themselves through an examination of the personal and social forces affecting their lives. The discipline of Sociology will be used to study such topics as the development of self, crime, collective behavior, and future shock. A research project will be required each term.</p> <p><b>Prerequisite: None</b></p>
Economic and Political Systems SOC304	0.5	11-12	<p>Economics is the study of the choices and decisions people make about how to use the world's resources. Understanding economics will help you make informed decisions for yourself and assess the decisions made by others. The course will focus on microeconomic topics like scarcity, opportunity cost, how markets work, and market structures. The macroeconomics portion will focus on measuring economic performance, government policy and the global economy.</p> <p><b>Prerequisite: None</b></p>

## Social Studies

AP Psychology SOC401-402	1.0	11-12	<p>AP Psychology is a year-long introductory college level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Students will have the opportunity to take the AP test in Psychology at the completion of the AP Psychology course. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: None</b></p>
AP European History SOC403-404	1.0	12	<p>AP European History is a year-long course where students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations. This is a rigorous course based on college level material. Students will have the opportunity to take the AP test in European History at the completion of this course. The cost of the AP exam to the student is \$98.</p> <p><b>Prerequisite: None</b></p>
Contemporary US History SOC405	0.5	12	<p>This course will focus on domestic and foreign policy from the 1970s through the present. Topics include political, economical, and social developments of the contemporary United States.</p> <p><b>Prerequisite: None</b></p>

## Social Studies

Latin American History SOC406	0.5	12	<p>This course focuses on Latin American civilizations and cultures from the early 1500's time to the present. It will include topics on the mixture of Catholicism and native religions and philosophies, government systems, and political, social, and economic changes. The course examines the conquest of early civilizations, including Aztecs, Incas, and Mayans through the involvement of the US and the Monroe Doctrine, Cuban Missile Crisis, multiple revolutions which led to each countries' independence from Spain. It concludes with the current state of affairs such as uprisings in Venezuela, economic flourishing of Costa Rica, drug crisis in Mexico, and immigration.</p> <p><b>*This course will be taught completely in Spanish.*</b></p> <p><b>Prerequisite: None</b></p>
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## Technology Education

Communication Technology – Photo TED001	0.5	9-12	<p>Communication Technology – Photo is an introductory course designed to train students on how to use industry digital editing software, computer hardware, and hardware equipment including a digital camera and monolights. Students also have introductory instruction in design, rules of composition, the history of photography, and career options in photography. Students will learn skills related to digital camera uses, photography techniques, scanner operations, design and layout skills, and digital imaging softwares.</p> <p><b>Prerequisite: None</b></p>
Communication Technology – Video TED002	0.5	9-12	<p>The Video Production course will provide students with a basic understanding of the technology behind video as an information medium, and some of the ways in which it is created to achieve its desired effect on the audience. Students will be able to demonstrate a variety of production skills and techniques as it relates to producing a variety of video formats. Example formats include producing; School News Feature Stories, Sports Highlights, Short Film, Memories Montage, Documentary Video, Biography Video, Music Video, Instructional Video, Advertising Commercials, and Public Service PSA Commercials.</p> <p><b>Prerequisite: None</b></p>



## Technology Education

Intro to Technology TED101	0.5	9-12	<p>Introduction to technology is an entry-level, survey course. Students will be exposed to the content of the different courses offered within the Technology Education Department. The courses will focus mainly on the different processes and techniques involved with the different areas of technology education, including materials and processes in both wood and metal, drafting, architecture, and robotics.</p> <p><b>Prerequisite: None</b></p>
Engine Technology TED102	0.5	9-12	<p>The operation, servicing and repair of small two and four-cycle engines as found in lawn care, construction, and agriculture are studied. The hands-on lab gives the student experience in disassembling and reassembling two and four-cycle engines. Students will have an introduction to consumer auto, which includes basic knowledge about how automobiles work and general maintenance, as well as basic engine repair. Students will not be allowed to bring in their own cars; a mock-up will be used for demonstrations.</p> <p><b>Prerequisite: None</b></p>
Plastics Technology TED103	0.5	9-12	<p>Students will gain knowledge about woodworking equipment to create projects out of plastic. The projects will involve design, cost estimation, cutting, gluing, shaping and buffing. Students will also select a mold that will be finished into a final project.</p> <p><b>Prerequisite: Introduction to Technology</b></p>
Woods I TED104	0.5	9-12	<p>Woods I is an entry-level Materials and Processes class. Students will gain experience in the use of wood working tools and machines. Safety practices will be a high priority. The understanding of basic practices used in woodworking will allow students to perform at a higher level in the courses that the student may take after this course. Included in the course will be construction of woodworking joints, wood finishing, solving problems related to wood construction, measuring and calculating board square feet and square feet. A small take home project will be the end result where students can demonstrate their skills learned in this class.</p> <p><b>Prerequisite: Introduction to Technology</b></p>

## Technology Education

Woods II TED105	0.5	10-12	<p>Woods II is an advanced level Materials and Processes class. Furniture construction will be the emphasis of this course. Students will design a project of their choice and build it according to the design specification. Students will be required to purchase their own materials. Examples of projects are: gun cabinets, coffee tables, stereo cabinets, and bookshelves. Students will learn how to operate and use the various tools and machines used in the woodworking industry.</p> <p><b>Prerequisite: Woods I</b></p>
Architectural Design TED106	0.5	9-12	<p>Students will use software to design a 3D house model, including materials and furnishings. Students gain an understanding of the concepts of one of the industry's leading 3D architectural modeling software. Building Information Modeling (BIM) concepts and advantages will be discussed throughout the course. Students learn command concepts for creating 3D BIM models and how this model is used for automatic creations of floor plans, elevations, sections, and many other drafting tasks. At the end of the course, students will have developed a set of typical construction drawings based on their BIM mode.</p> <p><b>Prerequisite: None</b></p>
Construction Technology TED107	0.5	10-12	<p>Students who plan to enter the construction trades after high school or plan to continue their education in the construction trades should enroll in this course. In this course students will become familiar with residential building practices, masonry, estimating, and the related trades in the construction industry. Practical applications will be part of the course. Principles of home design will be part of the required projects. Students who are interested in home decorating and interiors will find this course helpful.</p> <p><b>Prerequisite: Woods I</b></p>
Welding and Fabrication I TED201  	0.5	10-12	<p>A variety of skills will be learned in this course. Students will learn various welding operations in Oxy-fuel welding, SMAW, and gas cutting. Welding will be done on mild steel. Students will learn how to set up and use the equipment for Oxy-fuel welding and cutting, and shielded metal arc welding. Students will learn to use a variety of welding rods and both AC and DC settings. Other simple fabrication techniques will be taught using a variety of tools. This is a dual credit class for SMAW with Madison College. Students are required to pass specific welds and a bend test for credit</p> <p><b>Prerequisite: None</b></p>

## Technology Education

<p>Welding and Fabrication II TED202</p> 	0.5	10-12	<p>A variety of skills will be learned in this course. Students will learn various welding operations in GMAW, GTAW, and plasma cutting. Welding will be done mild steel, aluminum, and stainless steel. Students will learn how to set up and use the equipment for gas metal arc welding, gas tungsten arc welding, and plasma cutting. Students will also learn flux core welding on GMAW machines. Other fabrication techniques will be taught using a variety of tools. This is a dual credit class for GMAW with Madison College. Students are required to pass specific welds for credit.</p> <p><b>Prerequisite: Welding and Fabrication I</b></p>
<p>Machining I TED301</p> 	0.5	10-12	<p>Students will be taught how to operate machining tools, including vertical mill, horizontal mill, and horizontal lathe. Students will learn basic skills needed to operate manual machining equipment. Students will gain knowledge in basic metallurgy, blueprint reading, and layout. Students will also need to use a variety of measuring tools to ensure the accuracy of the final product. Students will be able to design and produce a finished project.</p> <p><b>Prerequisite: Introduction to Technology</b></p>
<p>Machining II TED302</p>	0.5	11-12	<p>Students will be taught how to operate CNC machines. This will include design, programming, care for the machine, and operation of machines. Students will use a variety of materials in different CNC machines, including CNC Mill, CNC Lathe, and CNC Plasma cutter. This will also include measurement and testing a final part for accuracy. Students will be able to design and produce a finished take home project.</p> <p><b>Prerequisite: Machining I</b></p>
<p>Engineering Concepts TED401</p>	0.5	11-12	<p>Engineering Concepts is a project-based course that introduces students to the profession of engineering and engineering technology, by exploring various technologies related to manufacturing processes, and engineering systems. Student teams are given problems to solve and use their science and technology skills to create, design, and build solutions. For example, students will have to design a pneumatic robot to do a variety of tasks. Another area of study will include basic electricity, electronic components and their operation, circuit design and project construction.</p> <p><b>Prerequisite: Introduction to Technology, Woods I, and Geometry</b></p>

## Technology Education

Advanced Technology TED402	0.5	11-12	<p>Students who wish to build on basic skills and knowledge gained in a previous technology education course will find this class rewarding. The course is individually focused on the needs and interests of each student. While learning to use problem-solving techniques, students will design and construct projects in a technical area of interest to them.</p> <p><b>Prerequisite: Minimum of three prior Technology Education courses and consent of instructor.</b></p>
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## World Languages

**Incoming freshmen may enroll in Spanish II if they scored 75% or above on the Spanish Placement Test or it's recommended by the Spanish II teacher.**

Spanish I WLA101-102	1.0	9-12	<p>This course provides an introduction to the Spanish language and culture. Emphasis is placed on developing the four basic language skills of reading, writing, speaking, and understanding. Focus of study is on verb conjugations (ar, er and ir) and other parts of speech; vocabulary related to everyday subjects such as family, foods, weather, days of week, months of year, numbers, home, body parts, transportation, and occupations; and Spanish culture including common names and greetings and special celebrations. Countries of Spanish culture are also discussed. Student skills are developed through teacher presentations, class discussion, oral and written exercises, listening activities, games, audio-visual activities and computer exercises..</p> <p><b>Prerequisite: None</b></p>
Spanish II WLA201-202	1.0	9-12	<p>Spanish II is a continuation of the first level course. Skills from level I are reviewed and reinforced. Special attention is given to grammatical concepts such as verbs (ser, estar, ver, and dar), irregular verbs, verb command, comparative and superlative. Vocabulary related to schoolwork, household appliances and chores, leisure time activities and foods is developed. Increased emphasis is placed on translating paragraphs, reading stories and writing short compositions in Spanish. Student skills are developed through teacher presentation, class discussion, oral and written exercises, listening activities, audio-visual materials viewing, computer exercises and projects.</p> <p><b>Prerequisite: Recommendation of a C or better in Spanish I. Incoming freshmen may enroll in Spanish II if they scored 75% or above on the Spanish Placement Test or it's recommended by the Spanish II teacher.</b></p>

## World Languages

<p>Spanish III WLA301-302</p> <p>Spanish IV WLA401-402</p>	1.0	10-12	<p>Major emphasis in this course is placed on fluency in speaking, reading and writing in Spanish. The use of Spanish is required to be used in the classroom at all times. Advanced skill acquisition as related to vocabulary, verbs, (subjunctive or irregular, present progressive tense, preterit of irregular, imperfect tense, preterit tense, present perfect tense, future tense and conditional tense) and direct and indirect objects are stressed. Upon completion of level III, students are expected to have mastered all basic Spanish grammar and have abilities to utilize in speaking, reading, and writing activities. Vocabulary skill development is carried out through special topics of study. Spanish level IV will build on Spanish level III.</p> <p><b>Prerequisite for Spanish III: Recommendation of a C or better in Spanish II.</b></p> <p><b>Prerequisite for Spanish IV: Recommendation of a C or better in Spanish III.</b></p>
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Note: Students may enroll in other world languages at district expense through the district approved virtual school. Students are allowed to schedule a maximum of one credit per year, which can be included in the 7 credit minimum requirement. There may be a fee to the family if the student withdraws from any virtual course as specified in the individual contract. If the student does not successfully complete the class by receiving at least a D-, the student or parent/guardian will be responsible for the full cost of the course.

## Other Required Courses

Career Skills OTH101  <b>REQUIRED</b>	.25	10	This course provides students with the opportunity to research a career cluster in depth, explore post high school graduation options and complete an Academic and Career Plan (ACP) in a career cluster of their interest. We will also prepare a resume, cover letter, fill out a job application, and begin skills such as oral communication and teamwork.
Personal Finance OTH102  <b>REQUIRED</b>	.25	10	This course provides students with the opportunity to develop personal financial management skills. Course content includes budgeting, saving, investing, obtaining consumer credit, renting, purchasing a home, obtaining insurance, filing taxes, and planning for retirement.

## Other Electives

Study Skills OTH203-204 (Recommendation Only)	Varies	9-12	The study skills course is designed to provide students with the techniques that are needed to develop or improve learning/study skills. Students can earn .25 Credits per Term.  <b>Prerequisite: Instructor consent.</b>
Online Courses <i>See Counselor</i>	Varies	9-12	Online courses from accredited institutions are also available for students seeking electives not currently offered at Waterloo High School. Students may enroll in these courses at the district expense. Students are allowed to schedule a maximum of one credit per year, which can be included within the 7 credit minimum requirement. These courses need to support their Academic Career Plan (ACP) and be approved by the high school counselor. There may be a fee to the family if the student withdraws from any virtual course as specified in the individual contract. If the student does not successfully complete the class by receiving at least a D-, the student or parent/guardian will be responsible for the full cost of the course.
Start College Now and Early College Credit  <i>See Counselor - Requires Board Approval</i>	Varies	11-12	See <a href="#">Page 7</a> for more information.

## Other Electives

Independent Study <i>See Counselor</i>	Varies	9-12	<p>Students may request independent study for credit. The first step is to obtain an application form from the counselor when students select courses for the up-coming school year. The student then must contact a teacher who will accept the responsibility for facilitating the student's learning experiences. A detailed proposal with objectives, activities, and methods of evaluation must be submitted to the principal by the student for approval prior to receiving permission to enroll in the course. Independent study without the principal's permission will not receive credit.</p> <p>The student will be required to present a report at the end of the term to a faculty committee. This oral presentation must demonstrate skill(s), project(s) and/or a written report that the student completed to meet the objectives of his/her independent study. The oral presentation must be completed no later than one week before the end of the term.</p> <p>Providing a meaningful and well-monitored independent study experience requires considerable effort on the part of the teacher. The teacher must account for a student's attendance during the independent study period. The teacher will also be expected to monitor the progress of the student and to summarize the progress upon request from the principal or the parent/guardians of the independent study student. Independent study is not an easy way to take a course. It is rather, an opportunity that will require more effort on the part of the teacher and the student. Teachers who do not want the extra responsibility should refuse to accept independent study students. The student, teacher, parent/guardian and principal prior to the beginning of the term must complete contracts for Independent Study.</p>
Mentorship K-8 OTH301-302  Pass/Fail Course	.5-1	11-12	<p>This activity is a part of the district's independent study program and is directed toward providing students an opportunity to do intensive study in a field of interest and/or career area. It is intended for students who have demonstrated past academic capability and abilities to conduct research and carry out tasks in an independent self-directed manner. Through the activity a student works not only independently to study a topic or career area but is involved in one-to-one learning experiences over a substantial predetermined period of time with a professional and/or business employer/employee in the student's topic and/or career area of interest. Time during the school day and credit toward graduation will be given based upon the length and nature of the mentorship. Prerequisite: Students must have completed four full semesters of high school. <b>Maximum of 2 credits per high school career and a cumulative GPA of 3.5 or better for grade 11 and 3.0 for grade 12.</b></p>
Mentorship High School OTH303-304  Pass/Fail Course	.5-1	11-12	<p>This activity is a part of the district's independent study program and is directed toward providing students an opportunity to do intensive study in a field of interest and/or career area. It is intended for students who have demonstrated past academic capability and abilities to conduct research and carry out tasks in an independent self-directed manner. Through the activity a student works not only independently to study a topic or career area but is involved in one-to-one learning experiences over a substantial predetermined period of time with a professional and/or business employer/employee in the student's topic and/or career area of interest. Time during the school day and credit toward graduation will be given based upon the length and nature of the mentorship. Prerequisite: Students must have completed four full semesters of high school. <b>Maximum of 2 credits per high school career and a cumulative GPA of 3.5 or better for grade 11 and 3.0 for grade 12.</b></p>

## Other Electives

<p>Youth Apprenticeship <i>See Counselor</i></p> <p>Pass/Fail Course</p>	<p>Varies</p>	<p>11-12</p>	<p>Youth apprenticeship is a rigorous one or two-year (Grades 11-12) elective program that combines academic and technical classroom instruction with mentored on-the-job learning. Hands-on learning at the job site is combined with classroom instruction. Program curriculum and skill standards to be learned are set by the state. Currently there are over fifteen different possible youth apprenticeship program areas for participation. The Department of Workforce Development, in partnership with the Department of Public Instruction and the Wisconsin Technical College System, administers the program. Program availability is dependent upon commitment from business/work sites, access to necessary course offerings and student qualifications. Students interested in the Youth Apprenticeship program should contact the high school counselor. The two-year (Grades 11-12) Cooperative Education Skill Standards Certificate Program is a state-approved program that focuses on integration of school-based and work-based learning. In the program, students participate in (1) school academic and vocational course offerings, career exploration, and industry based entry-level skill standards; and (2) work-based learning on-the-job. Upon successful completion of the program, students are awarded skill certificates related to the area studied. Program availability is dependent upon commitment from business/work sites, access to necessary course offerings, and student qualifications. Currently, the Waterloo School District is involved in skill standards programs related to Business Education, Agribusiness Education and Technology Education. Students interested in participating in a Cooperative Education Skills Standards Certificate Program should contact the high school counselor.</p>
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## Other Electives

School Supervised Work Experience	Varies	12	<p>School supervised work experience provides students an opportunity to work in a realistic job situation. This experience will help students assess their employment interests and abilities. Students will have an opportunity to develop work habits and attitudes necessary for job competence. Students will also have an opportunity to understand the interpersonal relationships in business and experience the "team" effort needed for success in a work environment.</p> <p>Students and parents/guardians will be expected to sign a contract that identifies the specific requirements and expectations of student(s), employer(s), and the school.</p> <p><b>STUDENT REQUIREMENTS:</b></p> <ol style="list-style-type: none"> <li>1. Students must have earned three credits in English or be repeating English (term one and/or two) in grade 12. Students must have completed six full semesters of high school.</li> <li>2. Students must be carrying 7.0 credits per year as per Board policy of which .5 to 2.0 of the 7.0 may be from school supervised work experience with the understanding that the maximum credit for school supervised work experience can be no more than 2.0 per high school career.</li> <li>3. Students must attend all scheduled regular classes or they may lose work release privileges during school hours and program credit.</li> <li>4. Students may not have more than 4 absences (excused or unexcused) from school during any term. If absences exceed this amount, the student will be withdrawn from the work experience program with a failing grade.</li> <li>5. Students must work in accordance with all child labor laws, rules and regulations if under the age of 18.</li> <li>6. Students participating in the school supervised work experience program are expected to receive passing grades in all courses in which they are enrolled. Students who receive one or more failing grades at a term grading period will have two weeks from the co-curricular eligibility posting date in which to demonstrate that they are passing all courses in which they are enrolled. Students failing classes at the end of the two-week period will be dropped from the school supervised work experience program with a grade of WF (withdrawal failure) and will receive no credit for the school supervised work experience program. Students receiving failing grades are required to meet with the work coordinator at least once during the two-week period in which they are working to raise their grade(s).</li> <li>7. Student failure to follow all school supervised work experience program rules may result in being terminated from the program and loss of work experience.</li> </ol>
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## **Alternative Education/Transition (Grades 9-12)**

Alternative programming is an instructional program that utilizes successful alternative or adaptive school structures and teaching techniques and that is incorporated into existing, traditional classrooms or regularly scheduled curricular programs or that is offered in place of regularly scheduled curricular programs. An alternative education program does not include a private school or a home-based private educational program. Transition courses are specific to students in special education and will be written into their IEP. Referrals to alternative programming may be made by a teacher, counselor, parent or the student him/herself and will be subject to review by an appointed team of school professionals and other interested persons.