
Wausau West

H I G H S C H O O L



Career Planning & Course Registration Handbook 2021-2022

Wausau School District – 8 Key Interests

- Student learning, achievement, and success are at the heart and are the filters for all decision making.
- Utilize research-based curricula that reflect 21st Century themes and applications and are responsive to the needs and potential of all students, preparing them for a global society.
- Provide authentic, diverse learning opportunities with practical applications in the classroom and beyond.
- The Wausau School District informs and engages the community in shaping educational strategy and formulating responses to change.
- To attract, retain, and develop a high quality, creative, and innovative workforce and leaders.
- Provide safe, secure, flexible, and attractive environments that support and enhance teaching and learning.
- Embrace, promote, and expand technology to maximize learning for all.
- Promote mutually beneficial partnerships and collaborations that expand learning opportunities and make other resources available.

WAUSAU WEST **MISSION STATEMENT**

Wausau West strives to be a unique learning community that encourages learning at high levels in order for all individuals to successfully participate in a democratic and diverse society. The tradition of innovation that has existed within a culture that values the flexibility fostered by modular scheduling needs to be perpetuated.

Dear Students, Parents and Guardians:

This *Career Planning and Course Registration Handbook* has been prepared by Wausau West High School to assist you in selecting and registering for courses of study for the upcoming school year. The handbook describes classes offered at Wausau West and provides information about our registration process, graduation requirements and Career Clusters. It also describes minimum admission standards for the University of Wisconsin System and Northcentral Technical College (NTC) and identifies courses that can lead to dual or college credit.

To help with the planning process, Wausau West encourages parents and students to have discussions at home about career goals, interests and skills. Students and families are reminded to use the available services and supports found in our fabulous Career Center which is located in room 183. The Career Center has resources that can assist in linking student's interests and abilities to available Career Clusters which can then be linked to typical majors, recommended courses and related activities. This information can be used to guide the development or modification of the student's Academic and Career Plan (ACP). Please note Career Cluster information is located before the actual course descriptions.

We all recognize that parents, counselors, teachers and homeroom advisors play a tremendously important role in guiding the course selection process. The primary responsibility, however, rests with **the student** as they establish goals and plans for their future.

Please consider the following when planning for the 2021-2022 school year:

Plan ahead. Know the graduation requirements. Use the enclosed 4-year planning worksheet (located on [page 4](#) of the Handbook), information in Xello (formerly known as Career Cruising), input from homeroom advisors, the Career Cluster information, the Career Center and/or your school counselor to help plan course selections.

Remain current in regards to college/university or technical college entrance requirements. Students with a career goal in mind are more successful than those students who don't have a plan or goal. If in doubt about credits or courses for graduation, 4-year college/university or technical college plans, see your school counselor or Career Center Coordinator and/or go to the Wausau West website at west.wausauschools.org > Student Services > Counseling.

Current grade 9 – 11 students are encouraged to discuss course selections with their homeroom advisor prior to final registration. Parents and students, please make plans to schedule an appointment with your advisor during the week of **February 1, 2021. This will replace our typical Advisor/Advisee Night.**

Current eighth grade students will be meeting with middle and high school counselors to work through the course selection and registration process. Parents, along with their 8th grade students, will be receiving information about **8th Grade Parent Night/Orientation in early January 2021.**

Please be thoughtful in this process to ensure that your course selections are the best possible choices for you. Once course selections are made, there are strict guidelines that govern schedule changes.

My best to you,



Arrin Woller
Associate Principal – Programming

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IMPORTANT NOTE!

Some of the courses listed in this edition of the Wausau West Career Planning and Course Registration Handbook may not be offered. It is through the student registration process that we begin to confirm course offerings (see [page 2](#)).

The fees listed in this book have been proposed/projected to cover cost of consumable materials. They are subject to change with school board approval through the 2021-2022 budget process.

DEPARTMENT CONTACT GUIDE FOR QUESTIONS

Here is a list of staff that can help assist you with questions during the registration process:

CAREER CENTER			
Raymond Jensen – Coordinator	261-0853	rjensen@wausauschools.org	
COUNSELING DEPARTMENT			
Joe Kelter – Dept. Leader	261-0891	jkelter@wausauschools.org	
DEPARTMENT LEADERS			
Agriscience	Joe Staszak	261-0850, ext. 23253	jstaszak@wausauschools.org
Art	Maria Artus	261-0904	martus@wausauschools.org
Business/Marketing Education	Carl Hert	261-0865	chert@wausauschools.org
English	John Masanz	261-0879	jmasanz@wausauschools.org
EL	Yumiko Okabe	261-0902	yokabe@wausauschools.org
Family & Consumer Science	Trisha Sirny	261-0907	tsirny@wausauschools.org
Global Language	Jerry Reinardy	261-0905	jreinrdy@wausauschools.org
Math	Jim Wendling Jason Myers	261-0920 261-0147	jwendling@wausauschools.org jmyers@wausauschools.org
Music	Daniel Emerson	261-0850, ext. 34102	demerson@wausauschools.org
Physical Education	Janna Hillman	261-0863	jhillman@wausauschools.org
Science	Mike Scheidler	261-0882	mscheidl@wausauschools.org
Social Studies	Elayna Clark	261-0929	eclark@wausauschools.org
Special Education	Katie Mathey	261-0929	kmathey@wausauschools.org
Technology and Engineering Education	Theran Peterson	261-0332	tpeterso@wausauschools.org
PROGRAMMING DEPARTMENT			
Associate Principal-Programming	Arrin Woller	261-0871	awoller@wausauschools.org

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REGISTRATION POLICIES

When choosing courses, a student's career goals, interests, learning style and abilities should be seriously considered. Students are encouraged to take full advantage of the many opportunities available at West High School, however students need to select courses carefully! Once student registrations are finalized in late January/early February, many related administrative decisions are made. **Budgeting, class size, number of course sections and teacher assignments are based on student course choices and overall school enrollment. Therefore, individual student decisions regarding course selections are very important.**

Students currently in grades 9 – 11 and their parents will have the opportunity to schedule an appointment with their Homeroom Advisor **during the week of February 1, 2021 in place of Advisor/Advisee Night** to review and finalize course selections.

Parents of eighth grade students planning to attend Wausau West High School will receive information about **Eighth Grade Parent Night/Orientation in early January 2021.** Registration and course selection will be coordinated between the student, middle school staff, parent/guardian and West Counseling staff.

1. **Students need to register for** six (6) one-half (.5) credit courses, and a physical education class each semester. Physical Education is required each semester until the graduation requirements are met.
2. **It is important to monitor your Academic and Career Plan progress** to meet graduation requirements. The 4-year Planning Sheet is available on [page 4](#) of this handbook.
3. **Before selecting a class, check the course description to be sure it fits your needs, interests and abilities.** Some courses indicate that you must have completed the prerequisite coursework, others indicate that you must have teacher approval, and still others have course fees. Read the information in the course description handbook carefully.
4. **Once your course selections have been made and the request sheet is completed,** the form is submitted electronically by the Homeroom Advisor to the Programming Office. **Be fully committed to the courses that you select. Schedule changes will only be made if one or more of the following occur:**
 - **Programming error**
 - **Series of conflicts with the class**
 - **Failure in a required course or prerequisite**
 - **Course adjustment to meet graduation requirements**
5. **Course offerings and the number of sections available are dependent upon budget requirements and the student registrations** received in February. Some students, therefore, may be asked to postpone taking a given course if the sections are full or if the course is not offered due to low enrollments. Administration reserves the right to make any and all final decisions regarding course additions, drops or changes.
6. **Conflict Resolution Day (CRD) is a vital aspect of flex mod.** With flexible modular scheduling, conflicts between courses can arise. CRD is held to allow students to work with teachers to resolve schedule conflicts. CRD for Semester 1 is typically held the first day of school. Semester 2 CRD has been scheduled for Friday, January 15, 2021 and will be held virtually this year.

GRADUATION REQUIREMENTS

The responsibility for completing all graduation requirements at the proper time rests with the student. While faculty and counselors will assist students in planning their program, they are not expected to relieve the students of their responsibility.

Twenty-three credits are required for graduation from Wausau West High School. Course and testing requirements, including certain required courses, are outlined below.

Area	Requirement	Typical Course Sequence
Physical Education	1.50 credits	PE 9, PE 10 and 3 Semesters of PE Electives*
Health Education	.50 credits	1 Semester
English	4 credits	English 9, English 10 and 4 semesters of additional English to include: 1 semester each of Composition and Literature plus 2 additional English courses
Social Studies	3.50 credits	US History I, US History II, World History and .50 credit of Social Studies Elective State Civics Test – Wisconsin graduation requirement
Science	3 credits	Integrated Bio/Phy Science 9, Integrated Bio/Phy Science 10, and additional courses must then be selected to meet Science graduation requirements
Mathematics	3 credits	Algebra I, Geometry, Algebra II
Electives	7.00 credits	
Financial Literacy	.50 credits	Passing one of these 3 classes will fulfill this requirement. Personal Financial Management – Bus/Marketing Ed Dept. Economics – Social Studies Department Money Matters – Family & Consumer Science Department

Note: **Wausau West High School graduation requirements are NOT college admission requirements.** Please read [page 9](#) of the Registration Handbook to become aware of general college requirements. Specific requirements can be found in each college handbook or on-line. Please see your counselor or Career Center Coordinator for more information.

Note: IMPORTANT NOTICE: By meeting these minimum graduation requirements without taking additional rigorous courses, you may be unprepared for future jobs, education, or military opportunities. Our recommendation is that each student take the most rigorous selection of courses, based on their future goals, which they can successfully manage.

Note: Students who are excused from Physical Education for medical reasons will find it necessary to earn additional credits to obtain the required number for graduation. A physician statement that excuses the student from Physical Education needs to be on file in the Nurse's Office. If you have questions, please see your counselor.

WAUSAU WEST 4 – YEAR PLAN (23 credits required)

GRADE 9									
SEMESTER 1					SEMESTER 2				
		Course	Grade	Credit			Course	Grade	Credit
1	English 9			.50	1	English 9			.50
2	US History I			.50	2	US History I			.50
3	Science			.50	3	Science			.50
4	Math			.50	4	Math			.50
5	Elective			.50	5	Elective			.50
6	Elective			.50	6	Elective			.50
	P.E. 9			.25		P.E. 9			.25
Total Semester 1 Credits:					Total Semester 2 Credits:				
Cumulative Credits: _____									
GRADE 10									
SEMESTER 1					SEMESTER 2				
		Course	Grade	Credit			Course	Grade	Credit
1	English 10			.50	1	English 10			.50
2	US History II			.50	2	US History II			.50
3	Science			.50	3	Science			.50
4	Math			.50	4	Math			.50
5	Elective			.50	5	Elective			.50
6	Elective			.50	6	Elective			.50
	P.E. 10 or Health			.25/.50		P.E. 10 or Health			.25/.50
Total Semester 1 Credits:					Total Semester 2 Credits:				
Cumulative Credits: _____									
GRADE 11									
SEMESTER 1					SEMESTER 2				
		Course	Grade	Credit			Course	Grade	Credit
1	English			.50	1	English			.50
2	World History			.50	2	World History			.50
3	Science			.50	3	Science			.50
4	Math			.50	4	Math			.50
5	Elective			.50	5	Elective			.50
6	Elective			.50	6	Elective			.50
	P.E.			.25		P.E.			.25
Total Semester 1 Credits:					Total Semester 2 Credits:				
Cumulative Credits: _____									
GRADE 12									
SEMESTER 1					SEMESTER 2				
		Course	Grade	Credit			Course	Grade	Credit
1	English			.50	1	English			.50
2	Social Studies (S1 or S2)			.50	2	Elective			.50
3	Elective			.50	3	Elective			.50
4	Elective			.50	4	Elective			.50
5	Elective			.50	5	Elective			.50
6	Elective			.50	6	Elective			.50
	P.E. (S1 or S2)			.25		P.E. (S1 or S2)			.25
Total Semester 1 Credits:					Total Semester 2 Credits:				
Cumulative Credits: _____									
Financial Literacy Requirement Met: _____					Civics Test Requirement Met: _____				

ADDITIONAL EDUCATIONAL OPPORTUNITIES

I. ADVANCED PLACEMENT COURSES

Students at Wausau West who are planning to pursue a college education may wish to get a head start by taking advantage of the Advanced Placement Courses. Most colleges (2-year and 4-year) grant credits for specific scores received on the Advanced Placement tests administered by the College Board. See apstudent.collegeboard.org for more information. The courses listed below are available through the curriculum at Wausau West. **Students need to contact specific college to determine if and how Advanced Placement course credit is awarded.** Please see Mrs. Karen Hill, AP Coordinator, or your counselor to find out more information.

DEPARTMENT	GRADE LEVEL	COURSES
Art	12	Advanced Placement Studio Art
English	12	Advanced Placement Literature
Mathematics	9-12	Advanced Placement Calculus (AB)
	9-12	Advanced Placement Statistics
	10-12	Advanced Placement Computer Science A
Global Language	12	Advanced Placement French
	12	Advanced Placement German
	12	Advanced Placement Spanish
Science	11-12	Advanced Placement Biology (follows full year of Biology Extended)
	11-12	Advanced Placement Chemistry (follows full year of Chemistry)
	11-12 (10*)	Advanced Placement Physics
Social Studies	10	Advanced Placement US History II
	11-12	Advanced Placement Microeconomics
	11-12	Advanced Placement Macroeconomics
	11-12	Advanced Placement US Government
	11-12	Advanced Placement Psychology

* Open to Grade 10 with written approval/signature from Science 9/10 teacher

II. DUAL CREDIT COURSES



Dual credit course offerings allow high school students to earn high school credit, college credit and also save money on tuition. These courses are taught in the high school by college-certified high school instructors. Please see the department teachers for details about West dual credit course offerings and grade requirements. Transferability of these credits is determined by the receiving college. The following courses are being offered for Dual Credit:

DEPARTMENT	GRADE LEVEL	DUAL CREDIT COURSE
Agriscience	10-12	Vet Science
	10-12	Advanced Conservation + Horticulture (when taken in same school year)
Business/Marketing	10-12	Accounting II
	11-12	Accounting IV
	12	Advanced Marketing
	9-12	Introduction to Keyboarding
	9-12	Microsoft Office
	10-12	Personal Financial Management
Family & Consumer Sciences	9-12	R.E.A.L. Keyboarding
	12	Aspiring Educators
	9-12	Child Development
	11-12	Early Childhood Services
	9-12	Foods & Nutrition II
10-12	Foods & Nutrition III	
Global Language	12	Advanced Placement French
Mathematics	11-12	Algebra III
	9-12	Precalculus
	9-12	Computer Science-Web Design
Science	11-12	Medical Terminology
Technology & Engineering	10-12	Metals II-Machine Tool Applications
	10-12	Introduction to Welding
	10-12	Woods II-Fundamentals of Furniture Making
	10-12	Building Trades I: Rough Framing
	12	Graphic Communications III
	9-10	PLTW Introduction to Engineering Design (IED)
	10-12	PLTW Principles of Engineering (POE)
	11-12	PLTW Digital Electronics (DE)
	11-12	PLTW Computer Integrated Manufacturing (CIM)
	12	Occupational Mechanics II (at East High School)
12	Auto Academy (at NTC)	

Note: Typically grade 10 must earn an "A" grade and meet any college requirements to earn dual credit.

Typically grade 9 is not eligible for dual credit.

Speak to the department teachers and college representatives when they visit your class for specifics.

III. COLLEGE CREDIT PROGRAMS

EARLY COLLEGE CREDIT PROGRAM (ECCP)

Effective for the 2018-2019 school year the Early College Credit Program (ECCP) replaced the Youth Options program as it exists in current law. A high school student in a public or private school in the state will be permitted to enroll in a UW System institution, or a private, non-profit institution of higher education, to take one or more nonsectarian courses, for which the pupil may earn high school credit, post-secondary credit, or both. Under the ECCP, the costs of courses is shared among the institution of higher education, the school district, the state, and in some cases, the student's family. The institution of higher education shares the cost by virtue of an allowable tuition charge. Additionally, if the student is receiving just post-secondary credit for a course, the student's family is responsible for paying 25% of the allowable tuition charge, unless that payment would pose an undue financial burden on the family, as determined by the Department. School boards will be responsible for establishing policy on the method for collecting the family's share of costs. A student's family cannot be charged for any portion of the allowable tuition amount if the pupil is earning high school credit as a result of enrolling in the course (even if it is a dual enrollment situation, under which the student earns both high school and post-secondary credit). Neither the institute of higher education or the school board may charge a student any additional costs or fees to a student, except that a school board may limit the amount it will pay to no more than 18 post-secondary semester credits per student.

START COLLEGE NOW (SCN)

Start College Now (SCN) will allow high school students the opportunity to take college courses at Wisconsin Technical Colleges. The process is very similar to Youth Options. In addition, feel free to review and download the application off the Wausau West's Counseling website.

Applications for enrollment in the Early College Credit Program for summer and/or fall, or Start College Now for the fall semester must be made by March 1. Applications for enrollment in the Early College Credit Program for the spring semester must be made by October 1. For further information and forms, please contact Mr. Joe Kelter, Counseling Dept. Leader, at 261-0890.

IV. PROJECT LEAD THE WAY Pre-Engineering Academy



Project Lead The Way (PLTW) is a national pre-engineering program established to help schools give students the knowledge they need to excel in high-tech fields. Studies of PLTW curriculum have proven that PLTW students become prepared, competent, high-tech employees U.S. industry needs to stay competitive in the global market. With its strong partnership concept, PLTW leverages the collective knowledge and efforts of secondary schools, colleges and universities, and industry to give students rigorous, relevant, reality-based knowledge to better prepare them for college and careers. Furthermore, the research shows, and continues to confirm, that students introduced to engineering principles, concepts, and real-world problems in high school are better prepared for college engineering programs – and more likely to be successful. Introduction at the high school level will allow students to determine if engineering is a desirable career for their future.

PLTW is a four-year sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. The PLTW courses include: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Computer Integrated Manufacturing, Civil Engineering and Architecture and Engineering Design and Development. Classes can be taken in sequence over four years or taken as schedules allow. Why should students take Project Lead The Way classes? Because PLTW is a hands-on, project based approach to learning that better prepares students for the rigors of college. The pre-engineering program incorporates Math, Science, English, and Technology skills needed for success. Real world problem solving is used to answer the students' age old questions, "Why do I need to know this?" and "When am I ever going to use this?" In addition, PLTW students from Certified Schools such as Wausau West High School can take the PLTW/National Affiliate final exams. **If a student successfully passes the final exam, he or she earns the option of purchasing college credit. For additional information visit the PLTW website: www.pltw.org.**

For course offerings at Wausau West, please see [page 121](#).

V. YOUTH APPRENTICESHIP – WORK EXPERIENCE

Wausau West High School offers students a unique opportunity to participate in one of 11 Youth Apprenticeship Programs. This year the following Apprenticeship Programs will be available:

Agriculture, Food and Natural Resources (AFNR)	Architecture and Construction
Arts, A/V Technology and Communication	Finance
Health Science	Hospitality/Lodging/Tourism
Information Technology (IT)	Manufacturing
Marketing	Science, Technology, Engineering and Math (STEM)
Transportation, Distribution and Logistics (TDL)	

One and/or two-year Youth Apprenticeship programs (taken during junior and senior years) combine academic instruction, technical instruction and work-based learning with an employer, allows students to earn high school credit and earn a state-recognized certificate of occupational proficiency. With the acquired proficiency, students will enter the workforce or go on to post-secondary education with marketable skills. These programs may possibly allow students to receive dual credit at a technical college or university.

To be eligible to apply for Youth Apprenticeship students must display a genuine interest in one of the focused areas. Students need to register for the class during their **sophomore/junior year**. Contact the instructors prior to finalizing course selections and for more information. Accepted students will need to be selected through an interview process, comply with the course mapping, maintain a minimum 2.5 cumulative grade point average, and have a satisfactory discipline and attendance record. Students with GPA's of 2.0-2.49 may be accepted with instructor approval.

See Mrs. Taryn Fuller, Business/Marketing Education teacher and YA Coordinator for more details.

Teacher Contacts	Program	Location
Mrs. Taryn Fuller	<ul style="list-style-type: none"> • Finance • Health Science 	Wausau West High School
Mr. Joe Staszak	<ul style="list-style-type: none"> • Agriculture Food and Natural Resources (AFNR) 	Wausau West High School
Mr. Theran Peterson	<ul style="list-style-type: none"> • Architecture and Construction • STEM 	Wausau West High School
Mr. Nick Polak	<ul style="list-style-type: none"> • Manufacturing 	Wausau West High School
Mr. Brian Brandt	<ul style="list-style-type: none"> • Arts, A/V Technology and Communication 	Wausau West High School
Mr. Carl Hert	<ul style="list-style-type: none"> • Hospitality/Lodging/Tourism • Marketing 	Wausau West High School
Mr. John Quinn	<ul style="list-style-type: none"> • Information Technology (IT) 	Wausau West High School
Mr. Mark Poppe	<ul style="list-style-type: none"> • Transportation, Distribution & Logistics (TDL) 	Wausau East High School

MINIMUM RECOMMENDED PREPARATION **FOR POST-SECONDARY SCHOOL** **(TECHNICAL COLLEGE, 4-YEAR COLLEGE/UNIVERSITY)**

The chart below identifies general **minimum** post-secondary education requirements that may be necessary for college admission. The counseling department can help you identify what additional courses might be helpful if you know what career area you wish to pursue and/or which technical college or university you hope to attend. Students are encouraged to carefully plan their high school program in order to meet their goals.

ENGLISH	MATHEMATICS	SCIENCE
4 credits: including literature, composition, and other courses that meet college preparatory expectations.	3 - 4 credits: 1 year each in Algebra I, Geometry and Algebra II. Check specific programs/majors or colleges for additional requirements.	3 - 4 credits: Some colleges or programs/majors may have specific science course requirements.
SOCIAL STUDIES	GLOBAL LANGUAGE	CRITICAL SKILLS
3 1/2 credits: US History I, US History II, World History, 1 semester elective Social Studies.	2 credits of one Global Language is recommended and is specifically required at UW-Madison. Additional years of Global Language may be beneficial.	Additional electives proving exposure to: technology leadership, team building, public speaking or career and technical experiences.
FINE ARTS	RELATED EXPERIENCE	
Some colleges may require courses in Art and/or Music. Check college or program/major for specifics.	Coursework in particular interest areas, extra-curricular participation and other experiences which lend themselves to specific career preparation.	

**** Please go on-line and check the college catalog to ensure you are meeting the specific requirements of the institution and/or program of choice.**

Students preparing for a 4-year college must acquire a minimum of seventeen (17) credits from the academic areas. (English, Math, Science, Social Studies, Global Language and/or Fine Arts, or that as defined by the specific institution.)

In addition to the required courses listed above, students will need to take an admissions exam and meet class rank requirements. NTC requires the ACT and other 4-year colleges and universities will accept the ACT or SAT. School extracurricular involvement, community service and rigor of high school courses are some of the other factors considered by colleges as they review applications for admission. Please note that some colleges have more stringent requirements. Wausau West provides these as general guidelines only. **It is strongly recommended that students check with their college of choice as to the specific requirements.**

**** Students planning to participate in Division I or Division II athletics in college must visit the NCAA Eligibility Center website for updated eligibility requirements.**

CAREER CLUSTERS and Your Post High School Plans

When selecting classes, it is important to keep in mind that what you do in high school matters and can affect what happens after high school. Consequently, we encourage students to think about their future as they select classes for the following year. Career exploration occurs naturally as students take classes that interest them. To gather even more information on careers, students can visit the Career Center (room 183) and take an interest inventory which will match them with Career Clusters. Below is a list of 16 nationally recognized Career Clusters. Each cluster lists specific activities related to various occupations. Each student will be developing their own Academic and Career Plan (ACP) and identifying Career Clusters of interest. Please see Mr. Jensen in the Career Center, your counselor, or your homeroom advisor to find out more information.

	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.</p>
	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning and related services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Planning and executing government functions at the local, state and federal levels, including governance, national security, foreign services, planning, revenue and taxation, and regulations.</p>
	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>

www.careertech.org/career-clusters

	<p>The management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.</p>
	<p>Building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.</p>
	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>

Career Exploration

- **Xello** (f/k/a Career Cruising): <http://www.wausauschools.org>
 - Select **Students**
 - **Xello**
 - Login

Colleges and Universities

- **University of Wisconsin System:** uwhelp.wisconsin.edu
- **Wisconsin Private Colleges:** www.wisconsinprivatecolleges.org
- **Wisconsin Technical College System:** www.wistechcolleges.org
- **University of Minnesota:** www.twin-cities.umn.edu
- **Minnesota State Colleges and Universities:** www.minnstate.edu

Military

- **Today's Military:** www.todaysmilitary.com



Careers in agriculture, food and natural resources encompass science, marketing, service, production, supply, processing, preservation of the food supply, plants, animals and natural resources.



INTERESTS & ABILITIES

Activities that describe what I like to do:

Animals

- Working with sick or injured animals
- Working with companion animals like dogs and cats
- Working with unique species such as fish for food
- A medical field
- Marine biology

Plants

- Caring for plants in your home or yard
- Designing landscapes for homes or businesses
- Developing new plants or modifying existing ones
- What plants need to grow successfully

Natural Resources

- Native fish and their aquatic habits
- Forest ecosystems
- Preservation of endangered species
- Wolves and whitetails in Wisconsin

Foods

- What makes bread rise and soda fizz
- Being a food scientist
- Designing new food and flavors
- How science is used to process your food

PATHWAYS IN THIS CLUSTER

- ◆ Agribusiness Systems
- ◆ Animal Systems
- ◆ Environmental Service Systems
- ◆ Food Products and Processing Systems
- ◆ Natural Resource Systems
- ◆ Plant Systems
- ◆ Power, Structural & Technical Systems

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
Algebra II; Algebra II Extended Algebra III/Trigonometry; Pre-Calculus Biology Extended; AP Biology Chemistry Conservation; Advanced Conservation Earth Science Foundations of Leadership Horticulture/Greenhouse Integrated Science Topics Intro to Agriscience	<ul style="list-style-type: none"> ◆ <u>Agribusiness Systems Pathway:</u> Accounting I, II, III, IV Management & Entrepreneurship Intro to Marketing Vet Science Woods II-Fundamentals of Furniture Manufacturing ◆ <u>Animal Systems Pathway:</u> Vet Science ◆ <u>Environment Service Systems Pathway:</u> Vet Science ◆ <u>Food Products & Processing Systems Pathway:</u> Foods I, II, III Food Science 	<ul style="list-style-type: none"> ◆ <u>Natural Resource Systems Pathway:</u> Vet Science ◆ <u>Plant Systems Pathway:</u> Vet Science Woods II-Fundamentals of Furniture Manufacturing ◆ <u>Power, Structural & Technical Systems Pathway:</u> Auto Awareness Intro to Production Welding Metals-Materials Processes Occupational Mechanics I, II Physics; AP Physics Intro to Power Mechanics
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>		

CAREER OPTIONS IN AGRICULTURE, FOOD AND NATURAL RESOURCES

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Agribusiness Systems Pathway

Agribusiness Supervisors**
 Dairy Farmers**
 Farm Product Purchasing Agents***
 Farm Supervisors**
 Fish Farmers**
 Fishermen*
 Fruit Tree Farmers***
 Horticultural Specialty Farmers**
 Hunters and Trappers*
 Hydroponic Farmers***
 Log Graders*
 Loggers*
 Nursery and Greenhouse Managers**
 Pest Control Technicians*
 Ranchers***
 Small Business Owners*
 Street Vendors*

◆ Animal Systems Pathway

Agricultural Inspectors***
 Agricultural Workers*
 Animal Scientists***
 Animal Trainers***
 Biological Scientists***
 Biological Technicians**
 Dairy Farmers**
 Extension Agents***
 Kennel Owners*
 Pet Groomers*

Ranchers***
 Veterinarians***
 Veterinary Researchers***
 Veterinary Technicians**

◆ Environmental Service Systems Pathway

Conservation Wardens***
 Environmental Engineers***
 Environmental Scientist***
 Environmental Technicians**
 Hydrologists***
 Industrial Waste Inspectors***
 Soil Conservationists***
 Wildlife Biologists***

◆ Food Products & Processing Systems Pathway

Agricultural Engineers***
 Agricultural Graders and Sorters*
 Agricultural Inspectors***
 Butchers and Meat Cutters**
 Cheesemakers*
 Chemical Technicians**
 Enologists***
 Food Processing Technicians**
 Food Technologists**
 Samplers*
 Weighers, Measurers, and Checkers*

◆ Natural Resource Systems Pathway

Agronomists***
 Fish Hatchery Managers***
 Geologists***

◆ Plant Systems Pathway

Agrochemical Applicators*
 Berry Farmers**
 Biological Technicians**
 Crop and Livestock Managers***
 Extension Agents***
 Foresters***
 Forestry and Logging Supervisors***
 Forestry Technicians**
 Fruit Tree Farmers***
 Horticultural Specialty Farmers**
 Horticulturists***
 Hydroponic Farmers***
 Urban Foresters***

◆ Power, Structural & Technical Systems Pathway

Farm Equipment Technicians**
 Water and Wastewater Treatment Plant Operators**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
AP Chemistry AP Statistics Microsoft Office Economics; AP Economics Global Language Leadership Training Money Matters Outdoor Education Personal Financial Management R.E.A.L. Keyboarding Speech	Job Shadow Youth Apprenticeship ● Agriculture, Food and Natural Resources (AFNR)	Archery Club Athletics/Intramurals FCCLA FFA Outdoor Club Peyton's Promise Science Olympiad Skeet and Trap Club SkillsUSA Warrior Power Club



Careers in architecture and construction encompass designing, planning, managing, building and maintaining the built environment.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Read and follow blueprints and/or instructions
- Picture in my mind what a finished product looks like

Work with my hands:

- Perform work that requires precise results
- Solve technical problems
- Visit and learn from beautiful, historic, or interesting buildings

Personal qualities that describe me:

- Curious
- Good at following directions
- Pay attention to detail
- Good at visualizing possibilities
- Patient and persistent

School subjects that I like:

- Math
- Drafting
- Physical Sciences
- Construction Trades
- Electrical Trades/Heat, Air Conditioning and Refrigeration/Technology Education

PATHWAYS IN THIS CLUSTER

- ◆ Construction
- ◆ Design/Pre-Construction
- ◆ Maintenance/Operations

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Algebra II Algebra III/Trigonometry; Pre-Calculus Building Trades I & II Civil Engineering & Architecture PLTW-CEA Engineering Design & Development PLTW-EDD Foundations of Leadership Intro to Engineering/Design PLTW-IED Introduction to CAD/CAM Physics; AP Physics Principles of Engineering PLTW-POE Psychology	<ul style="list-style-type: none"> ◆ <u>Construction Pathway:</u> Intro to Production Welding Woods-Materials Processes Woods II-Fundamentals of Furniture Manufacturing ◆ <u>Design/Pre-Construction Pathway:</u> Woods II-Fundamentals of Furniture Manufacturing ◆ <u>Maintenance/Operations Pathway:</u> Advanced Manufacturing Intro to Production Welding Metals-Materials Processes Metals II-Machine Tool Applications Woods-Materials Processes
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN ARCHITECTURE & CONSTRUCTION

* = Entry Level
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◆ Construction Pathway

Air Conditioning Technicians**
 Bricklayers**
 Building Contractors***
 Cabinetmakers**
 Carpenters**
 Cement Masons*
 Construction Laborers*
 Construction Painters*
 Construction Supervisors**
 Construction Worker Helpers*
 Construction Workers *
 Drywall Installers*
 Earth Drillers*
 Electricians**
 Elevator Mechanics**
 Excavating and Loading Machine Operators**
 Explosives Workers*
 Extractive Worker Helpers*
 Fence Builders*
 Floor Covering Installers*
 Furnace Installers**
 Glaziers*
 Grading and Leveling Machine Operators*
 Groundskeepers and Gardeners**

Insulation Workers**
 Ornamental Iron Workers**
 Pipefitters**
 Plumbers**
 Roofers**
 Sheet Metal Duct Installers**
 Sheet Metal Workers**
 Shipfitters**
 Stonemasons**
 Structural Metal Fitters**
 Structural Steel Workers**
 Tile Setters**

◆ Design and Pre-Construction Pathway

Architects***
 Architectural Drafters**
 Civil Drafters**
 Civil Engineering Technicians**
 Civil Engineers***
 Cost Estimators***
 Electrical Engineering Technicians**
 Electrical Engineers***
 Interior Designers**
 Land Surveyors**
 Landscape Architects***
 Right-of-Way Managers***

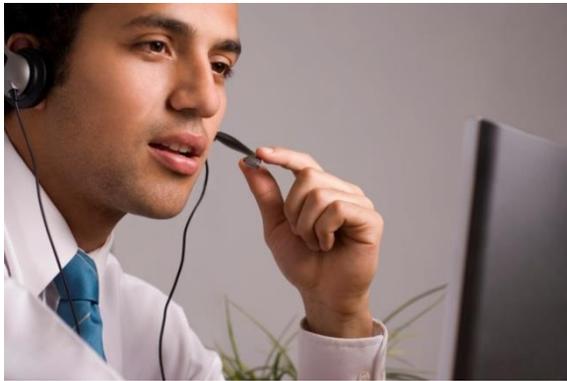
◆ Maintenance and Operations Pathway

Air Conditioning Technicians**
 Air Hammer Operators*
 Asphalt Paving Machine Operators*
 Civil Drafters**
 Construction Workers*
 Cost Estimators***
 Drywall Installers*
 Earth Drillers*
 Electricians**
 Elevator Mechanics**
 Extractive Worker Helpers*
 Fence Builders*
 Floor Covering Installers*
 Furnace Installers**
 Gas Appliance Servicers**
 Glaziers*
 Groundskeepers and Gardeners**
 Insulation Workers**
 Operating Engineers*
 Paperhangers**
 Pile Driving Machine Operators**
 Plasterers*
 Power Plant Operators **
 Sewer Pipe Cleaners*
 Surveying Technicians**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Accounting I, II, III, IV AP Calculus AP Statistics Chemistry Earth Science Economics Global Language Integrated Science Topics Microsoft Office Money Matters Personal Financial Management R.E.A.L. Keyboarding Speech	Job Shadow School-Based Enterprise <ul style="list-style-type: none"> • Adv. Manufacturing - Warrior Manufacturing Youth Apprenticeship <ul style="list-style-type: none"> • Architecture & Construction 	Art Club Athletics/Intramurals Outdoor Club Robotics Club Science Olympiad Solar Olympics SkillsUSA



Careers in arts, A/V technology, and communications encompass designing, producing, exhibiting, performing, writing, and publishing multimedia content. This can include visual and performing arts, design, journalism and entertainment services.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Use my imagination to communicate new information to others
- Perform in front of others
- Read and write
- Play a musical instrument
- Perform creative, artistic activities
- Use video and recording technology
- Design brochures and posters

Personal qualities that describe me:

- Creative and imaginative
- Good communicator/good vocabulary
- Curious about new technology
- Relate well to feelings and thoughts of others
- Determined/tenacious

School subjects that I like:

- Art/Graphic design
- Music
- Speech and Drama
- Journalism/Literature
- Audiovisual Technologies

PATHWAYS IN THIS CLUSTER

- ◆ Audio and Video Technology and Film
- ◆ Journalism and Broadcasting
- ◆ Performing Arts
- ◆ Printing Technology
- ◆ Telecommunications
- ◆ Visual Arts

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
Broadcasting - Oral Communication Film As Literature Foundations of Leadership Graphic Communication I, II, III Today's Tech Trends	<ul style="list-style-type: none"> ◆ <u>Audio and Video Technology & Film Pathway:</u> Broadcasting-Oral Comm Drama Lit Computer Web Design CS Topics-Gaming Digital Electronics-PLTW-DE ◆ <u>Journalism and Broadcasting Pathway:</u> Advanced Composition Broadcasting-Oral Comm Drama Lit Microsoft Office Intro to Marketing Publications Lab Speech ◆ <u>Performing Arts Pathway:</u> Aerobics/Social Dance Band, Choir, Orchestra Broadcasting-Oral Comm Speech ◆ <u>Printing Technology Pathway:</u> Microsoft Office Publications Lab 	<ul style="list-style-type: none"> ◆ <u>Telecommunications Pathway:</u> AP Computer Science Broadcasting-Oral Comm Digital Electronics-PLTW-DE Physics; AP Physics Speech ◆ <u>Visual Arts Pathway:</u> Calculus Ceramics Chemistry CS-Intro to Programming CS-AP CS Principles CS-Web Design CS Topics-Gaming CS Topics-Mobile Apps Drawing & Painting Novels Physics; AP Physics Publications Lab Sculpture
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>		

CAREER OPTIONS IN ARTS, A/V TECHNOLOGY & COMMUNICATIONS

* = Entry Level
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 *** = Bachelor or Advanced Degree

◆ Audio and Visual Technology & Film Pathway

Animators**
 Art Directors***
 Cinematographers***
 Medical and Scientific Illustrators***
 Recording Technicians**
 Television Camera Operators**

◆ Journalism & Broadcasting Pathway

Announcers***
 Caption Writers**
 Copy Editors***
 Disc Jockeys**
 Journalists***
 Literary Writers***
 Proofreaders**
 Reporters***
 Sign Language Interpreters**
 Technical Writers***

◆ Performing Arts Pathway

Actors and Actresses***
 Choreographers***
 Composers***
 Dance Teachers***
 Dance Therapists***

Dancers***
 Film Editors***
 Grips*
 Music Teachers***
 Music Therapists***
 Musicians***
 Set Designers***
 Singers***

◆ Printing Technology Pathway

Bookbinders**
 Desktop Publishers**
 Lithographic Photographers**
 Lithographic Strippers**
 Photoengravers**
 Photofinishers**
 Photographic Technicians**
 Precision Typesetters**
 Prepress Technicians**
 Printing Machine Operators and Tenders**
 Printing Press Operators**
 Printing Specialists**
 Sign Designers*

◆ Telecommunications Pathway

Broadcast Technicians**
 Central Office Technicians**
 Communications Line Maintainers**
 Electrical Line Maintainers**
 Telephone Installation Technicians**

◆ Visual Arts Pathway

Advertising Layout Designers**
 Art Teachers***
 Art Therapists***
 Artists***
 Commercial Artists**
 Craft Artists**
 Display Persons**
 Fashion Designers***
 Floral Designers*
 Food Stylists*
 Industrial Designers***
 Jewelers**
 Photographers**
 Potters***
 Sketch Artists**
 Tattoo Artists**
 Video Game Designers**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
AP Statistics Art and Music Electives Aspiring Educators Calculus Child Development CS-Intro to Programming Creative Writing Early Childhood Services Economics Foods I, II, III Food Science Global Language Leadership Training Money Matters Personal Financial Management R.E.A.L. Keyboarding Young Adult Medicine	Job Shadow Youth Apprenticeship • Graphic Design/Printing	Art Club Athletics/Intramurals Computer Club Dance United DECA Drama Club FCCLA FFA Forensics Gaming Club Jazz Band Manga Club Mock Trial Prom Committee Publications Lab Staff Robotics Club School Plays/Musicals SkillsUSA Student Council Tech Crew



Careers in business, management and administration encompass planning, organizing, directing and evaluating business functions that are essential to efficient and productive business operations.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Perform routine, organized activities but can be flexible
- Work with numbers and detailed information
- Be the leader in a group
- Make business contacts with people
- Work with computer programs
- Create reports and communicate ideas
- Plan my work and follow instruction without close supervision

Personal qualities that describe me:

- Organized
- Practical and logical
- Patient
- Tactful
- Responsible

School subjects that I like:

- Computer Applications/Business and Information Technology
- Accounting
- Math
- English
- Economics

PATHWAYS IN THIS CLUSTER

- ◆ Administrative Support
- ◆ Business Information Management
- ◆ General Management
- ◆ Human Resources Management
- ◆ Operations Management

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
<p>Accounting I, II, III, IV Algebra III/Trigonometry; Pre-Calculus AP Statistics Business Law Business Opportunities CS-Intro to Programming Economics; AP Micro Econ, AP Macro Econ Exploring Business Foundations of Leadership Intro Marketing, Sports & Event Mktg, Hospitality & Tourism Mktg & Advanced Marketing Management & Entrepreneurship Metals II-Machine Tool Applications Microsoft Office Psychology; AP Psychology Speech Today's Tech Trends</p>	<ul style="list-style-type: none"> ◆ <u>Administrative Support Pathway:</u> Health Occupations I, II R.E.A.L. Keyboarding ◆ <u>Business Information Mgmt Pathway:</u> Advanced Manufacturing CS-AP Computer Science ◆ <u>General Management Pathway:</u> Advanced Manufacturing Health Occupations I, II ◆ <u>Operations Management Pathway:</u> Advanced Manufacturing <p style="text-align: center;">Courses for the remaining PATHWAYS are the same as those listed on the left.</p>
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN BUSINESS MANAGEMENT & ADMINISTRATION

* = Entry Level
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 *** = Bachelor or Advanced Degree

◆ **Administrative Support Pathway**

Administrative Assistants**
 Administrative Services Managers***
 Administrative Support Supervisors**
 City Planning Aides***
 Computer Operators**
 Operators**
 Correspondence Clerks*
 Court Reporters**
 Data Entry Keyers*
 Duplicating Machine Operators*
 File Clerks*
 General Office Clerks*
 Hospital Admitting Clerks*
 Hotel Clerks*
 Industrial Clerks*
 Mail Clerks*
 Messengers*
 Meter Readers*
 Payroll and Timekeeping Clerks*
 Receptionists*
 Social Welfare Clerks***
 Statement Clerks*
 Stenographers**
 Telephone Operators*
 Tellers*
 Word Processor Operators**
 Word Processors and Typists**

◆ **Business Information Management Pathway**

Accountants***
 Billing, Cost, and Rate Clerks*
 Bookkeeping Clerks*
 Business Industry Consultants***
 Controllers***
 Financial Analysts***
 Management Consultants***
 Research Analysts***
 Tax Preparers**

◆ **General Management Pathway**

Advertising Account Executives***
 Advertising Managers***
 Art Directors***
 Association Executives***
 Brew Masters***
 Business and Industry Managers***
 Casino Managers**
 Caterers**
 Chief Executive Officers***
 Club Managers**
 Communications and Operations Managers***
 Credit Card Operations Managers***
 Crop and Livestock Managers**
 Department Store Managers***
 Development Directors***
 Educational Administrators***
 Employee Welfare Managers***

Energy Managers***
 Financial Institution Managers***
 Funeral Directors**
 Health Care Administrators***
 Health Services Coordinators***
 Household Managers*
 Kennel Owners*
 Management Trainees**
 Nursing Administrators***
 Small Business Owners*
 Theater Managers***
 Travel Agency Managers***

◆ **Human Resources Management Pathway**

Arbitrators***
 Compensation and Benefits Managers***
 Employee Welfare Managers***
 Employment Interviewers***
 Human Resources Clerks*
 Human Resources Managers**

◆ **Operations Management Pathway**

Budget Analysts***
 Compensation and Benefits Managers***
 Industrial Production Managers***
 Training Program Managers***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
AP Calculus Chemistry; AP Chemistry Composition Courses CS-Web Design Family Relations Foods I, II, III Global Language Government; AP Government Graphic Communications I, II, III Money Matters Personal Financial Management	Job Shadow Business Opportunity Internship Advanced Marketing Internship School-Based Enterprise <ul style="list-style-type: none"> ● School Store Youth Apprenticeship <ul style="list-style-type: none"> ● Finance ● Hospitality & Tourism ● Marketing 	Athletics/Intramurals Computer Club DECA FCCLA FFA Forensics International Club Key Club Mock Trial O.W.N. Young Democrats



Careers in education and training encompass the planning, managing, and providing of education and training services. This also includes related learning support services.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Communicate with different types of people
- Help others with their homework or learn new things
- Go to school
- Direct and plan activities for others
- Handle several responsibilities at once
- Acquire new information
- Help people overcome their challenges

Personal qualities that describe me:

- Friendly
- Decision maker
- Helpful
- Innovative/Inquisitive
- Good listener

School subjects that I like:

- Language Arts
- Social Studies
- Math
- Science
- Psychology

PATHWAYS IN THIS CLUSTER

- ◆ Administration & Administrative Support
- ◆ Professional Support Services
- ◆ Teaching/Training

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Composition; Advanced Composition Foundations of Leadership Leadership Training Microsoft Office Psychology; AP Psychology Speech Today's Tech Trends	<ul style="list-style-type: none"> ◆ <u>Administration & Administrative Support Pathway:</u> Accounting I, II, III, IV AP Statistics Economics; AP Economics Today's Tech Trends ◆ <u>Professional Support Services Pathway:</u> Child Development Health Occupations I, II Medical Terminology Young Adult Medicine ◆ <u>Teaching/Training Pathway:</u> Aspiring Educators Child Development Early Childhood Services Family Relations
<i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i>	

CAREER OPTIONS IN EDUCATION & TRAINING

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
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◆ Administration and Administrative Support Pathway

Apprenticeship Consultants***
 Educational Administrators***
 Instructional Coordinators***
 Librarians***
 Library Technicians**

◆ Professional Support Services Pathway

Psychiatrists***
 Psychologists***
 School Counselors***
 Speech-Language Pathologists***

◆ Teaching and Training Pathway

Adult Literacy Teachers***
 Art Teachers***
 Child Care Assistants**
 Child Life Therapists***
 Dance Teachers***
 Elementary School Teachers***
 Extension Agents***

Fitness Instructors*
 Kindergarten Teachers***
 Music Teachers***
 Physical Education Teachers***
 Postsecondary Teachers***
 Secondary School Teachers***
 Self-Enrichment Teachers*
 Sign Language Interpreters**
 Special Education Teachers***
 Teacher Assistants**
 Teachers of the Blind and Visually Impaired***
 Training Program Managers***
 University Professors***
 Vocational Education Teachers*

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Adventure Based Activities Aerobic/Social Dance AP Statistics Art Courses Band; Choir; Orchestra Economics Global Language Intro to Marketing, Sports & Events Mktg; Adv. Marketing Medical Terminology Money Matters Multi-Cultural Literature Outdoor Education Personal Financial Management R.E.A.L. Keyboarding Sociology	Job Shadow Business Opportunity Internship Industry Certification: ● Assistant Childcare Teacher ● Childcare Teacher	Art Club Athletics/Intramurals DECA FCCLA FFA French/German/Spanish Clubs International Club Key Club Mock Trial National Honor Society O.W.N. Project Unify School-Based Tutoring/Mentoring School Plays/Musicals SkillsUSA Student Council



Careers in financial and investment planning, banking, insurance, and business financial management.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work with numbers
- Work to meet a deadline
- Make predictions based on existing facts
- Have a framework of rules by which to operate
- Analyze financial information and interpret it to others
- Handle money with accuracy and reliability
- Take pride in the way I dress and look

Personal qualities that describe me:

- Trustworthy
- Orderly
- Self-confident
- Logical
- Methodical or efficient

School subjects that I like:

- Accounting
- Math
- Economics
- Banking/Financial Services
- Insurance Services

PATHWAYS IN THIS CLUSTER

- ◆ Accounting
- ◆ Banking Services
- ◆ Business Finance
- ◆ Insurance
- ◆ Securities and Investments

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Accounting I, II, III, IV AP Statistics Business Law Economics; AP Micro Econ; AP Macro Econ Foundations of Leadership Government; AP Government Intro to Marketing, Sports & Events Mktg; Advanced Marketing Microsoft Office Money Matters Personal Financial Management Speech	<p style="text-align: center;">All the PATHWAYS listed above share the same suggested coursework identified on the left.</p>
<p style="text-align: center;"><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN FINANCE

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Accounting Pathway

Accountants***
 Actuaries ***
 Auditors***
 Budget Analysts ***

◆ Banking Services Pathway

Bill and Account Collectors*
 Cashiers*
 Credit Analysts***
 Credit Card Operations Managers***
 Financial Counselors***
 Financial Institution Managers***
 Loan Officers**
 Personal Property Appraisers**
 Real Estate Appraisers**

◆ Business Finance Pathway

Business and Industry Consultants***
 Controllers***
 Economists***
 Financial Analysts***

◆ Insurance Pathway

Claim Adjusters***
 Insurance Agents***
 Insurance Underwriters***
 Investigators and Adjusters**

◆ Securities and Investments Pathway

Brokerage Clerks***
 Financial Counselors***
 Investment Advisors***
 Stockbrokers***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
AP Calculus AP Computer Science Composition Courses Exploring Business Global Language Management & Entrepreneurship Psychology; AP Psychology R.E.A.L. Keyboarding	Job Shadow Business Opportunities Internship Advanced Marketing Internship School-Based Enterprise ● School Store Youth Apprenticeship ● Finance	Athletics/Intramurals Computer Club DECA FFA Math Club Mock Trial



Careers in government and public administration encompass governmental governance, national security, foreign service, revenue and taxation regulation, and the management of programs and administration at the local, state and federal levels.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Be involved in politics
- Negotiate, defend, and debate ideas and topics
- Plan activities and work cooperatively with others
- Work with details
- Perform a variety of duties that may change often
- Analyze information and interpret it to others
- Travel and see things that are new to me

Personal qualities that describe me:

- Good communicator
- Competitive
- Service minded
- Well organized
- Problem solver

School subjects that I like:

- Government
- Language Arts
- History
- Math
- Foreign Language

PATHWAYS IN THIS CLUSTER

- ◆ Foreign Service
- ◆ Governance
- ◆ National Security
- ◆ Planning
- ◆ Public Management and Administration
- ◆ Regulation
- ◆ Revenue and Taxation

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
<p>AP Statistics Business Law Economics; AP Micro Econ; AP Macro Econ Foundations of Leadership Global Language Government; AP Government Leadership Training Microsoft Office Psychology; AP Psychology Speech Today's Tech Trends</p>	<ul style="list-style-type: none"> ◆ <u>Foreign Service Pathway:</u> Sociology ◆ <u>Governance Pathway:</u> Intro to Marketing Sports & Events Marketing Hospitality & Tourism Mktg Advanced Marketing Today's Tech Trends ◆ <u>National Security Pathway:</u> Adventure Based Act Today's Tech Trends ◆ <u>Planning Pathway:</u> Accounting I, II, III, IV ◆ <u>Public Management Pathway:</u> Accounting I, II, III, IV Intro to Marketing Sports & Events Marketing Hospitality & Tourism Mktg Advanced Marketing ◆ <u>Regulation Pathway:</u> Auto Awareness Health Occupations I, II Intro to Power Mechanics ◆ <u>Revenue and Taxation Pathway:</u> Accounting I, II, III, IV Today's Tech Trends
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN GOVERNMENT & PUBLIC ADMINISTRATION

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ **Foreign Service Pathway**

Peace Corps Volunteers***
 Translators and Interpreters**

◆ **Governance Pathway**

Apprenticeship Consultants***
 Coroners***
 Emergency Management
 Specialists***
 Government Agency
 Administrators***
 Job Analysts***
 Legislators***
 Mail Carriers*
 Mail Handling Machine Operators*
 Postal Clerks*
 Postmasters (must be promoted)*
 Social Services Administrators***

◆ **National Security Pathway**

Armored Assault Vehicle Crew
 Members*
 Armored Assault Vehicle Officers***
 Artillery and Missile Crew Members*
 Artillery and Missile Officers***
 Infantry Forces*
 Infantry Officers***
 Special Forces*
 Special Operations Officers***

◆ **Planning Pathway**

Urban Planners***

◆ **Public Management and
Administration Pathway**

Association Executives***
 City Managers***
 City Planning Aides***
 Political Scientists***
 Public Utilities Managers***

◆ **Regulation Pathway**

Building Inspectors**
 Driver's License Examiners*
 Equal Opportunity Specialists***
 Industrial Waste Inspectors***
 License Clerks*
 Occupational Health and Safety
 Specialists***
 Occupational Health and Safety
 Technicians***
 Public Health Sanitarians***
 Space Systems Technicians**
 Transportation Inspectors**

◆ **Revenue and Taxation
Pathway**

Accountants***
 Auditors***
 Lawyers***
 Title Examiners**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Civil Engineering PLTW-CEA Medical Terminology Money Matters Personal Financial Management R.E.A.L. Keyboarding	Job Shadow Youth Apprenticeship • Finance	Athletics/Intramurals DECA FFA Forensics French/German/Spanish Clubs Key Club Mock Trial O.W.N. Student Council Young Democrats



Careers in health science encompass planning, managing, and providing health services.

This includes therapeutic services, diagnostics, health informatics, support services, and biotechnology research and development.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work under pressure
- Help sick people
- Make decisions based on logic and information
- Participate in health and science classes
- Respond quickly and calmly in emergencies
- Work as a member of a team
- Follow guidelines precisely and meet strict standards of accuracy

Personal qualities that describe me:

- Compassionate and caring
- Good at following directions
- Conscientious and careful
- Patient
- Good listener

School subjects that I like:

- Biological Sciences
- Chemistry
- Math
- Occupational Health classes
- Language Arts

PATHWAYS IN THIS CLUSTER

- ◆ Biotechnology Research and Development
- ◆ Diagnostic Services
- ◆ Health Informatics
- ◆ Support Services
- ◆ Therapeutic Services

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p>AP Statistics Biology Extended; AP Biology Chemistry; AP Chemistry Composition Foundations of Leadership Health Occupations I, II Integrated Science Topics Medical Terminology Microsoft Office Psychology; AP Psychology Sociology Speech Young Adult Medicine</p>	<ul style="list-style-type: none"> ◆ <u>Biotechnology Research and Development Pathway:</u> Algebra II Algebra III/Trigonometry Physics; AP Physics Pre-Calculus; AP Calculus ◆ <u>Diagnostic Services Pathway:</u> Today's Tech Trends 	<ul style="list-style-type: none"> ◆ <u>Health Information Pathway:</u> Accounting I, II, III, IV Today's Tech Trends ◆ <u>Support Services Pathway:</u> Accounting I, II, III, IV Today's Tech Trends ◆ <u>Therapeutic Services Pathway:</u> Child Development Family Relations Relaxation Techniques Vet Science
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>		

CAREER OPTIONS IN HEALTH SCIENCE

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Biotechnology Research and Development Pathway

Geneticists***
 Gerontologists***
 Mathematical Technicians**
 Mathematicians***
 Medical Researcher***
 Pathologists***
 Sociologists***
 Statisticians***

◆ Diagnostic Services Pathway

Audiologists***
 Cardiopulmonary Technologists**
 Cardiovascular Technologists**
 Cytotechnologists***
 Electrocardiograph Technicians**
 Electroencephalograph Technologists**
 Geneticists***
 Histotechnologists**
 Medical Laboratory Technicians**
 Medical Technologists***
 Nuclear Medicine Technologists**
 Phlebotomy Technicians**
 Radiologic Technologists**
 Ultrasound Technologists**

◆ Health Informatics Pathway

Cyberlibrarians***
 Health Care Administrators***
 Health Unit Clerks**
 Hospital Admitting Clerks*
 Medical Records Administrators***
 Medical Records Technicians**
 Medical Secretaries**
 Medical Transcriptionists**

◆ Support Services Pathway

Biomedical Engineers***
 Central Supply Technicians*
 Food Service Supervisors**
 Food Service Workers*
 Health Services Coordinators***
 Laboratory Equipment Preparers*
 Nuclear Technicians**

◆ Therapeutic Services Pathway

Anesthesiologists***
 Animal Chiropractors***
 Art Therapists***
 Athletic Trainers***
 Certified Nursing Aides/Assistants**
 Chiropractors***
 Dance Therapists***
 Dental Assistants**
 Dental Hygienists**
 Dental Specialists***
 Dentists***
 Dialysis Technicians**
 Dietetic Technicians**
 Dietitians***
 Emergency Medical Technicians**
 Hemotherapists
 Home Health Aides
 Licensed Practical Nurses**
 Massage Therapists**
 Medical Assistants**
 Medical Diagnostic and Treatment Specialists***
 Music Therapists***
 Nurse Practitioners***
 Nursing Administrators***

Occupational Therapists***
 Occupational Therapy Aides**
 Occupational Therapy Assistants**
 Opticians***
 Optometric Assistants**
 Optometrists***
 Oral Surgeons***
 Orthopedic Technicians**
 Osteopathic Physicians***
 Perfusionist***
 Pharmacists***
 Pharmacy Technicians**
 Physical Therapist Assistants**
 Physical Therapists***
 Physical Therapy Aides*
 Physician Assistants***
 Podiatric Assistants**
 Podiatrists***
 Primary Care Physicians***
 Prosthetists and Orthotists***
 Psychiatric Aides**
 Psychiatrists***
 Radiation Therapists**
 Registered Nurses**
 Respiratory Therapists**
 Speech-Language Pathologists***
 Surgeons***
 Surgical Technicians**
 Translators and Interpreters**
 Vocational Rehabilitation Counselors***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Adventure Based Activities AP Statistics Band; Choir; Orchestra Child Development CS-AP Computer Science Economics; AP Micro Econ; AP Macro Econ Family Relations Foods I, II, III Food Science Leadership Training Global Language Money Matters Multi-Cultural Literature Personal Financial Management R.E.A.L. Keyboarding Science Seminar	Job Shadow Youth Apprenticeship ● Health Science	Athletics/Intramurals FCCLA FFA French/German/Spanish Clubs Peyton's Promise Project Unify School-Based Tutoring/Mentoring Science Olympiad Warrior Power



Careers in hospitality and tourism encompass the management, marketing and operations of restaurants and other food service, lodging, attractions, and recreational events. It also includes travel-related services.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Investigate new places and activities
- Work with all ages and types of people
- Organize activities in which other people enjoy themselves
- Have a flexible schedule
- Help people make up their minds
- Communicate easily, tactfully and courteously
- Learn about other cultures

Personal qualities that describe me:

- Tactful
- Self-motivated
- Works well with others
- Outgoing
- Slow to anger

School subjects that I like:

- Language Arts/Speech
- Foreign Language
- Social Sciences
- Marketing
- Food Services

PATHWAYS IN THIS CLUSTER

- ◆ Lodging
- ◆ Recreation, Amusements & Attractions
- ◆ Restaurant and Food/Beverage Services
- ◆ Travel & Tourism

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Accounting I, II, III, IV CS-Web Design Economics; AP Micro Econ, AP Macro Econ Foundations of Leadership Intro to Marketing, Sports & Events Mktg, Hospitality & Tourism Mktg; Advanced Marketing & Internship Microsoft Office Money Matters Personal Financial Management Psychology; AP Psychology Sociology Speech Today's Tech Trends	<ul style="list-style-type: none"> ◆ <u>Lodging Pathway:</u> Same suggested courses from this cluster ◆ <u>Recreation, Amusements & Attractions Pathway:</u> Adventure Based Activities Biology Child Development Leadership Training Outdoor Education Vet Science ◆ <u>Restaurant and Food/Beverage Services Pathway:</u> Art Foundations Chemistry Foods I, II, III Food Science ◆ <u>Travel & Tourism Pathway:</u> Foods I, II, III Global Language Food Science
<i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i>	

CAREER OPTIONS IN HOSPITALITY & TOURISM

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Lodging Pathway

Baggage Porters and Bellhops*
 Cleaning and Building Services Supervisors*
 Concierges*
 Day Workers*
 Hotel and Motel Cleaners*
 Hotel Clerks*
 Household Managers*
 Janitors*
 Launderers and Ironers*
 Motel and Hotel Managers**

◆ Recreation, Amusements and Attractions Pathway

Animal Trainers***
 Archivists***
 Casino Managers**
 Club Managers**
 Coaches***
 Conservation Technicians***
 Curators***

Furniture Refinishers*
 Gambling Dealers*
 Gaming Change Persons and Booth Cashiers*
 Gaming Surveillance Officers*
 Guides*
 Historians***
 Janitors*
 Park Rangers***
 Professional Athletes*
 Recreation Directors**
 Recreational Activity Leaders**
 Recreational Facility Attendants*
 Slot Machine Attendants*
 Taxidermists*
 Theater Managers***
 Umpires*
 Ushers*
 Wardrobe and Dressing Room Attendants*
 Zookeepers***

◆ Restaurants and Food/Beverage Services Pathway

Baking Technologists**
 Bartenders*
 Brew Masters***
 Cake Decorators*
 Caterers**
 Food Attendants*
 Food Service Supervisors**
 Food Service Workers*
 Restaurant Cooks and Chefs*
 Restaurant Hosts and Hostesses*
 Restaurant Managers**
 Short Order Cooks*
 Waiter and Waitress Assistants*
 Waiters and Waitresses*

◆ Travel and Tourism Pathway

Conference Planners***
 Guides*
 Translators and Interpreters**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
AP Statistics	Job Shadow	Athletics/Intramurals
Conservation; Advanced Conservation	Business Opportunities Internship	Computer Club
Earth Science	Advanced Marketing Internship	DECA
Management & Entrepreneurship	School-Based Enterprise ● School Store	FCCLA
R.E.A.L. Keyboarding	Youth Apprenticeship ● Hospitality & Tourism ● Marketing	FFA
		Forensics
		French/German/Spanish Clubs
		French National Honor Society
		Outdoor Club
		School-Based Tutoring/Mentoring
		School Plays/Musicals



Careers in human services encompass preparing individuals to work with families and support human needs.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Care about people, their needs, and their problems
- Participate in community services and/or volunteering
- Listen to other people's viewpoints
- Help people be at their best
- Work with people from preschool age to old age
- Think of new ways to do things
- Make friends with different kinds of people

Personal qualities that describe me:

- Good communicator/good listener
- Caring
- Non-materialistic
- Uses intuition and logic
- Non-judgmental

School subjects that I like:

- Language Arts
- Psychology/Sociology
- Family and Consumer Sciences
- Finance
- Foreign Language

PATHWAYS IN THIS CLUSTER

- ◆ Consumer Services
- ◆ Counseling & Mental Health Services
- ◆ Early Childhood Development & Services
- ◆ Family & Community Services
- ◆ Personal Care Services

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p>Economics; AP Micro Econ; AP Macro Econ</p> <p>Foundations of Leadership</p> <p>Government; AP Government</p> <p>Health Occupations I, II</p> <p>Microsoft Office</p> <p>Money Matters</p> <p>Personal Financial Management</p> <p>Psychology; AP Psychology</p> <p>Sociology</p> <p>Speech</p> <p>Young Adult Medicine</p>	<ul style="list-style-type: none"> ◆ <u>Consumer Services Pathway:</u> Accounting I, II, III, IV ◆ <u>Counseling & Mental Health Science Pathway:</u> Aspiring Educators Child Development Early Childhood Services Family Relations ◆ <u>Early Childhood Development & Services Pathway:</u> Art Electives Aspiring Educators Child Development Early Childhood Services Family Relations 	<ul style="list-style-type: none"> ◆ <u>Family & Community Services Pathway:</u> Biology Extended Aspiring Educator Child Development Early Childhood Services Family Relations ◆ <u>Personal Care Services Pathway:</u> Art Electives Biology Extended Chemistry Child Development Family Relations
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>		

CAREER OPTIONS IN HUMAN SERVICES

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
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◆ Consumer Services Pathway

Customer Service Representatives*
 Financial Counselors***
 Investment Advisors***

◆ Counseling and Mental Health Services Pathway

Alcohol/Drug Abuse Counselors***
 Career Counselors***
 Gerontologists***
 Personal Coaches***
 Personal Counselors***
 Placement Counselors***
 Psychiatrists***
 Psychologists***
 School Counselors***
 Sociologists***
 Vocational Rehabilitation Counselors***

◆ Early Childhood Development and Services Pathway

Child Care Assistants**
 Nannies*
 Preschool Teachers**

◆ Family and Community Services Pathway

Clergies***
 Community Organization Workers**
 Crossing Guards*
 Dietitians***
 Gerontologists***
 Home Support Workers*
 Household Cleaners*
 Household Cooks*
 Institutional Cooks*
 Religious Workers***
 Social Workers***

◆ Personal Care Services Pathway

Barbers**
 Cosmetologists**
 Custom Sewers*
 Embalmers**
 Fitness Instructors *
 Funeral Directors**
 Nail Technicians**
 Personal Services Supervisors**
 Shoe Repairers**
 Skin Care Specialists**
 Tattoo Artists**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Adventure Based Activities AP Statistics Foods I, II, III Food Science Global Language Intro to Marketing Leadership Training Medical Terminology Multi-Cultural Literature	Job Shadow Business Opportunities Internship Youth Apprenticeship <ul style="list-style-type: none"> ● Health Science 	Athletics/Intramurals DECA FCCLA FFA French/German/Spanish Clubs French National Honor Society International Club Key Club Mock Trial National Honor Society O.W.N. Project Unify School-Based Tutoring/Mentoring Student Council Young Democrats



Careers in information technology encompass designing, developing and supporting the technological hardware, software, multimedia and integration of information systems.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work with computers
- Reason clearly and logically to solve complex problems
- Use machines, techniques and processes
- Read technical materials and diagrams and solve technical problems
- Adapt to change
- Play video games and figure out how they work
- Concentrate for long periods without being distracted

Personal qualities that describe me:

- Logic/analytical thinker
- See details in the big picture
- Persistent
- Good concentration skills
- Precise and accurate

School subjects that I like:

- Math
- Science
- Computer Tech/Applications
- Communications
- Graphic Design

PATHWAYS IN THIS CLUSTER

- ◆ Information Support & Services
- ◆ Network Systems
- ◆ Programming and Software Development
- ◆ Web and Digital Communications

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Accounting I, II, III, IV Broadcasting - Oral Communication CS-Intro to Programming CS-AP Computer Science CS-Physical Computing CS Topics-Mobile Apps CS Topics-Robotics Foundations of Leadership Graphic Communication I, II, III Microsoft Office; Today's Tech Trends Physics; AP Physics Psychology; AP Psychology Pre-Calculus; AP Calculus R.E.A.L. Keyboarding Speech Today's Tech Trends	<ul style="list-style-type: none"> ◆ <u>Information Support & Services Pathways:</u> Same suggested courses from this cluster. ◆ <u>Network Systems Pathway:</u> Digital Electronics PLTW-DE ◆ <u>Programming and Software Development Pathway:</u> CS Topics-Mobile Apps ◆ <u>Web & Digital Communications Pathway:</u> CS-Web Design Digital Electronics PLTW-DE
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN INFORMATION TECHNOLOGY

* = Entry Level
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 *** = Bachelor or Advanced Degree

◆ Information Support and Services Pathway

Computer Engineers***
 Computer Security Specialists**
 Computer Support Specialists**
 Database Administrators**
 Information Scientists***

◆ Network Systems Pathway

Computer Network Coordinators***
 Computer Security Specialists**
 Computer Systems Analysts ***
 Data Communications Analysts***
 Information Scientists***

◆ Programming and Software Development Pathway

Computer Programmers***
 Computer Systems Analysts***
 Scientific and Engineering Programmers***
 Software Engineers***
 Tool Programmers**
 Video Game Designers**

◆ Web and Digital Communications Pathway

Animators**
 Computer Programmers***
 Medical and Scientific Illustrators***
 Web Developers***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
AP Statistics Band; Choir; Orchestra Broadcasting-Oral Comm Ceramics; Drawing & Painting; Sculpture Economics; AP Micro; AP Macro English Composition Courses Global Language Introduction to Marketing Medical Terminology Money Matters Personal Financial Management Publications Lab Science Electives	Job Shadow Business Opportunities Internship Youth Apprenticeships • Information Technology • STEM	Computer Club Gaming Club Robotics Club Science Olympiad SkillsUSA Tech Crew



Careers in law, public safety, corrections and security encompass the planning, managing, and providing of protective services, legal services, homeland security and public safety.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work under pressure or in the face of danger
- Make decisions based on my own observations
- Interact with other people
- Be in positions of authority
- Respect rules and regulations
- Debate and win arguments
- Observe and analyze people's behavior

Personal qualities that describe me:

- Adventurous
- Dependable
- Community-minded
- Decisive
- Optimistic

School subjects that I like:

- Language Arts
- Psychology/Sociology
- Government/History
- Law Enforcement
- First Aid/First Responder

PATHWAYS IN THIS CLUSTER

- ◆ Correction Services
- ◆ Emergency & Fire Management Services
- ◆ Law Enforcement Services
- ◆ Legal Services
- ◆ Security & Protective Services

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
Business Law Foundations of Leadership Government; AP Government Microsoft Office Psychology; AP Psychology Sociology Speech Today's Tech Trends	<ul style="list-style-type: none"> ◆ <u>Correction Services Pathway:</u> Self Defense ◆ <u>Emergency & Fire Management Services Pathway:</u> Adventure Based Activities Biology; AP Biology Chemistry; AP Chemistry Conservation; Advanced Conservation Health Occupations I & II Medical Terminology Outdoor Education Physics; AP Physics Young Adult Medicine 	<ul style="list-style-type: none"> ◆ <u>Law Enforcement Services Pathway:</u> AP Statistics Biology Extended Economics ◆ <u>Legal Services Pathway:</u> Economics Medical Terminology ◆ <u>Security and Protective Services Pathway:</u> Economics
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>		

CAREER OPTIONS IN LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Correction Services Pathway

Correctional Officer Supervisors***
 Correctional Officers**
 Probation and Parole Officers**

Police Canine Trainers**
 Police Officers**
 Sketch Artists**
 State Patrol Officers**

◆ Emergency and Fire Management Services Pathway

Dispatchers*
 Emergency Management Specialists***
 Emergency Medical Technicians**
 Fire Inspectors**
 Firefighter Supervisors**
 Firefighters**

◆ Legal Services Pathway

Adjudicators***
 Arbitrators***
 Court Reporters**
 Judges***
 Judicial Law Clerks***
 Lawyers***
 Legal Secretaries**
 Paralegal Assistants**

◆ Law Enforcement Services Pathway

Bailiffs**
 Conservation Wardens**
 Dispatchers*
 FBI Agents***
 Fingerprint Examiners**
 Forensic Science Technicians***
 Law Enforcement Supervisors**
 Park Rangers***
 Parking Enforcement Officers*

◆ Security and Protective Services Pathway

Crossing Guards*
 Gaming Surveillance Officers (must be promoted)*
 Private Detectives***
 Security Guards*

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Composition Computer Science Courses Family Relations Global Language Leadership Training Money Matters Personal Financial Management R.E.A.L. Keyboarding Self Defense Weight Training	Job Shadow Youth Apprenticeship <ul style="list-style-type: none"> ● Health Science 	Athletics/Intramurals DECA Forensics French/German/Spanish Clubs Mock Trial National Honor Society O.W.N. Science Olympiad Student Council Warrior Power Club Young Democrats



Careers in manufacturing encompass planning, managing and processing materials into intermediate or final products.

It also includes related Professional and technical support such as production planning, control maintenance and manufacturing/process engineering.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work with my hands and learn that way
- Put things together
- Do routine, organized and accurate work
- Perform activities that produce tangible results
- Apply math to work out solutions
- Use hand and power tools and operate equipment/machinery
- Visualize objects in three dimensions from flat drawings

Personal qualities that describe me:

- Practical
- Observant
- Physically active
- Step-by-step thinker
- Coordinated

School subjects that I like:

- Math-Geometry
- Chemistry
- Trade and Industry courses
- Physics
- Language Arts

PATHWAYS IN THIS CLUSTER

- ◆ Health, Safety & Environmental Assurance
- ◆ Logistics & Inventory Control
- ◆ Maintenance, Installation & Repair
- ◆ Manufacturing Production Process Development
- ◆ Production
- ◆ Quality Assurance

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Advanced Manufacturing-Warrior Manufacturing Building Trades I & II Computer Integrated Manufacturing PLTW-CIM CS-Physical Computing Computer Science Topics Engineering Design & Development PLTW-EDD Foundations of Leadership Intro to Engineering Design PLTW-IED Intro to Welding Metals-Materials Processes Metals II-Machine Tool Applications Microsoft Office Principles of Engineering PLTW-POE Woods-Materials Processes	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> ◆ <u>Health, Safety & Environmental Assurance Pathway:</u> Advanced Conservation Biology; AP Biology Chemistry; AP Chemistry Civil Engineering/Architecture PLTW-CEA Conservation Earth Science </div> <div style="width: 45%;"> <ul style="list-style-type: none"> ◆ <u>Production Pathway:</u> Building Trades I & II </div> </div> <p style="text-align: center;">Courses for the remaining PATHWAYS are the same as listed on the left.</p>

Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.

CAREER OPTIONS IN MANUFACTURING

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Health, Safety and Environmental

Assurance Pathway

Environmental Engineers***
 Environmental Scientists***
 Environmental Technicians**
 Nuclear Technicians**
 Occupational Health and Safety Specialists***
 Occupational Health and Safety Technicians***

◆ Logistics and Inventory Control Pathway

Communications and Operations Managers***
 Expeditors*
 Industrial Truck Operators*
 Order Fillers*
 Production and Planning Clerks*

◆ Maintenance, Installation and Repair Pathway

Biomedical Equipment Technicians*
 Bowling Alley Mechanics*
 Camera Technicians**
 Communications Line Maintainers**
 Computer Technicians**
 Consumer Electronics Technicians**
 Data Processing Equipment Technicians**
 Electric Motor Technicians**
 Electrical Appliance Servicers**
 Electrical Line Maintainers**
 Electromechanical Technicians***
 Farm Equipment Technicians**
 Gasoline Engine Technicians**
 Gunsmiths**
 Industrial Machinery Technicians**
 Instrumentation Technicians***
 Laser Technicians**
 Locksmiths**
 Machinery Maintenance Workers**
 Machinists**
 Maintenance Electricians**
 Maintenance Mechanics**
 Mechanical Control Technicians**
 Metal and Plastic Processing Machine Setup Operators*
 Metal Fabricating Machine Setup Operators**
 Metalworking and Plasticworking Machine Setup Operators**
 Millwrights**
 Miscellaneous Machine Setup Operators**
 Musical Instrument Repairers**
 Numerical Control Machine Setup Operators**
 Office Machine Technicians**

Paper Machine Setup Operators**
 Piano Technicians**
 Refrigeration Technicians**
 Security System Technicians**
 Stationary Engineers**
 Technician and Repairer Helpers*
 Textile Machine Setup Operators**
 Tool Grinders**
 Watch Technicians**
 Woodworking Machine Setup Operators**

◆ Manufacturing Production Process Development Pathway

Apparel Patternmakers**
 Chemical Plant Operators**
 Coremakers**
 Electrical Engineering Technicians**
 Electrical Engineers***
 Electromechanical Technicians**
 Electronic Engineers***
 Electronics Engineering Technicians**
 Engineering Managers***
 Industrial Engineering Technicians**
 Industrial Engineers***
 Industrial Production Managers***
 Machinists**
 Mechanical Drafters**
 Mechanical Engineering Technicians**
 Mechanical Engineers***
 Metal Patternmakers**
 Molders**
 Precision Pattern and Model Makers**
 Tool and Die Makers**
 Tool Designers***
 Tool Programmers**
 Wood Model Makers**
 Wood Patternmakers**

◆ Production Pathway

Apparel and Home Furnishings Dyers*
 Boilermakers**
 Chemical Plant Operators**
 Combination Welders**
 Coremakers**
 Dental Laboratory Technicians**
 Electromechanical Technicians**
 Engravers (must be promoted)*
 Fabricator and Inspector Helpers*
 Fiberglass Laminators*

Furniture Finishers*
 Gas Plant Operators**
 Gem Workers**
 General Foundry Workers*
 Hand Workers*
 Layout Workers**
 Machine Operator and Tender Helpers*
 Metal and Plastic Processing Machine Operators and Tenders*
 Metal and Plastic Processing Machine Setup Operators*
 Metal Fabricating Machine Operators and Tenders**
 Metal Fabricating Machine Setup Operators**
 Metalworking and Plasticworking Machine Operators and Tenders*
 Metalworking and Plasticworking Machine Setup Operators**
 Mining Machine Operators*
 Miscellaneous Machine Operators and Tenders*
 Miscellaneous Machine Setup Operators**
 Numerical Control Machine Setup Operators**
 Oil Well Drillers*
 Ornamental Iron Workers**
 Paper Machine Setup Operators**
 Precision Assemblers*
 Precision Calibrators*
 Precision Production Supervisors**
 Production Assemblers*
 Production Machine Operators and Tenders**
 Production Supervisors**
 Shipfitters**
 Solderers and Brazers**
 Textile Machine Operators and Tenders**
 Textile Machine Setup Operators*
 Tire Builders*
 Upholsterers**
 Woodworking Machine Operators**
 Woodworking Machine Operators and Tenders**
 Woodworking Machine Setup Operators**

◆ Quality Assurance Pathway

Electronics Inspectors*
 Fabricator and Inspector Helpers*
 Hand Workers*
 Production Inspectors*
 Quality Control Technicians**
 Samplers*
 Weighers, Measurers, and Checkers*

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Algebra III/Trigonometry or Pre-Calculus AP Calculus; AP Statistics Band; Choir; Orchestra Chemistry; AP Chemistry CS-Intro to Programming CS-AP Computer Science Digital Electronics PLTW-DE Economics; AP Micro; AP Macro Geometry Graphics Communications I, II and III Introduction to Marketing Management & Entrepreneurship Medical Terminology Money Matters Personal Financial Management Physics; AP Physics R.E.A.L. Keyboarding Today's Tech Trends	Job Shadow Business Opportunities Internship School-Based Enterprise ● Adv. Manufacturing-Warrior Manufacturing Youth Apprenticeship ● Manufacturing ● STEM ● Transportation, Distribution and Logistics	Art Club Athletics/Intramurals Computer Club FFA Outdoor Club Robotics Club Science Olympiad SkillsUSA



Careers in marketing, sales and service encompass planning, managing, and performing marketing activities that are designed to reach organizational objectives.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Shop and go to the mall
- Be in charge
- Make displays and promote ideas
- Give presentations and enjoy public speaking
- Persuade people to buy products or to participate in activities
- Communicate my ideas to other people
- Take advantage of opportunities to make extra money

Personal qualities that describe me:

- Enthusiastic
- Competitive
- Creative
- Self-motivated
- Persuasive

School subjects that I like:

- Language Arts
- Math
- Business Education/Marketing
- Economics
- Computer Applications

PATHWAYS IN THIS CLUSTER

- ◆ Marketing Management
- ◆ Merchandising
- ◆ Marketing Communications
- ◆ Marketing Research
- ◆ Professional Sales

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
Accounting I, II, III, IV Business Law Economics; AP Micro Econ; AP Macro Econ Exploring Business Foundations of Leadership Intro to Marketing, Sports & Event Mktg, Hospitality & Tourism Mktg; Adv. Marketing & Internship Management & Entrepreneurship Microsoft Office Money Matters Personal Financial Management Psychology; AP Psychology Sociology Speech Today's Tech Trends	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> ◆ <u>Marketing Communications Pathway:</u> Drama Lit Graphic Comm I, II, III </div> <div style="width: 45%;"> <ul style="list-style-type: none"> ◆ <u>Marketing Research Pathway:</u> Advanced Composition AP Statistics </div> </div> <p style="text-align: center;">Courses for the remaining PATHWAYS are the same as listed on the left.</p>
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN MARKETING, SALES & SERVICE

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Marketing Communications Pathway

Advertising Account Executives***
 Advertising Layout Designers**
 Business Agents***
 Food Stylists**
 Public Relations Managers***
 Public Relations Practitioners***
 Telemarketers*
 Wedding Planners*

◆ Marketing Management Pathway

Advertising Managers***
 Cashiers*
 Direct Sales Representatives*
 Marketing Managers***
 News Vendors*
 Public Relations Manager***
 Purchasing Managers**
 Street Vendors*

◆ Marketing Research Pathway

Market Research Analysts***
 Research Analysts***

◆ Merchandising Pathway

Buyers**
 Classified Ad Clerks*
 Commodity Sales Supervisors***
 Customer Service Representatives*
 Department Store Managers***
 Display Persons**
 Purchasing Agents**

◆ Professional Sales Pathway

Advertising Sales Representatives**
 Antique/Collectible Dealers*
 Auctioneers**
 Automotive Parts Salesperson*
 Automobile Salespersons*
 Business Services Sales Representatives**
 Counter Clerks**
 Customer Service Representatives*
 Direct Sales Representatives**
 Home and Home Improvement Product Salespersons**
 Insurance Agents***
 Models*
 Personal Product Salespersons*
 Real Estate Agents***
 Real Estate Brokers**
 Recreation and Leisure Product Salespersons*
 Retail Sales Supervisors**
 Sales Clerks*
 Sales Engineers***
 Sales Representatives**
 Technical Salespersons**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Adventure Based Activities Art Foundations & Electives Broadcasting-Oral Comm Composition CS-Web Design Foods I, II & III Food Science Government; AP Government Global Language Publications Lab R.E.A.L. Keyboarding	Job Shadow Business Opportunities Internship Adv. Marketing Internship School-Based Enterprise <ul style="list-style-type: none"> ● Management & Entrepreneurship (Junior Achievement) ● School Store Youth Apprenticeship <ul style="list-style-type: none"> ● Hospitality/Lodging/Tourism ● Marketing 	Athletics/Intramurals DECA FCCLA Forensics French/German/Spanish Clubs Mock Trial Music/Drama Productions O.W.N. Peyton's Promise Project Unify Prom Committee Publications Lab Staff



Careers in science, technology, engineering and mathematics encompass planning, managing, and providing scientific research in areas such as physical science, social science and engineering.

This also includes laboratory/testing and research/development services.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Interpret formulas
- Find answers to questions
- Work in a laboratory
- Figure out how things work and investigate new things
- Explore new technology
- Experiment to find the best way to do something
- Pay attention to details and help things be precise

Personal qualities that describe me:

- Detail oriented
- Inquisitive
- Objective
- Methodical
- Mechanically inclined

School subjects that I like:

- Math
- Science
- Drafting/Computer Aided Drafting
- Electronics/Computer Networking
- Technical Classes/Technology Education

PATHWAYS IN THIS CLUSTER

- ◆ Engineering and Technology
- ◆ Science and Math

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS		
Algebra II Algebra III or Pre-Calculus AP Statistics Calculus; AP Calculus Chemistry; AP Chemistry CS-AP Computer Science CS-Intro to Programming CS Topics Engineering Design & Dev PLTW-EDD Earth Science Economics; AP Micro Econ; AP Macro Econ Biology Extended; AP Biology Foundations of Leadership Intro to Engineering & Design PLTW-IED Physics; AP Physics Principles of Engineering PLTW-POE Psychology; AP Psychology Speech	<table border="0"> <tr> <td data-bbox="820 1207 1112 1407"> ◆ <u>Engineering and Technology Pathway:</u> Civil Engineering & Architecture PLTW-CEA Computer Integrated Manufacturing PLTW-CIM Digital Electronics PLTW-DE Intro to CAD/CAM </td> <td data-bbox="1144 1207 1421 1333"> ◆ <u>Science and Math Pathway:</u> Medical Terminology Vet Science Food Science </td> </tr> </table>	◆ <u>Engineering and Technology Pathway:</u> Civil Engineering & Architecture PLTW-CEA Computer Integrated Manufacturing PLTW-CIM Digital Electronics PLTW-DE Intro to CAD/CAM	◆ <u>Science and Math Pathway:</u> Medical Terminology Vet Science Food Science
◆ <u>Engineering and Technology Pathway:</u> Civil Engineering & Architecture PLTW-CEA Computer Integrated Manufacturing PLTW-CIM Digital Electronics PLTW-DE Intro to CAD/CAM	◆ <u>Science and Math Pathway:</u> Medical Terminology Vet Science Food Science		
<i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i>			

CAREER OPTIONS IN SCIENCE TECHNOLOGY, ENGINEERING & MATHEMATICS

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ **Engineering and Technology Pathway**

Aerospace Engineers***
 Agricultural Engineers***
 Ceramic Engineers***
 Chemical Engineers***
 Chemical Technicians**
 Civil Engineering Technicians**
 Civil Engineers***
 Computer Engineers***
 Electrical Engineering Technicians**
 Electrical Engineers***
 Electronic Engineers***
 Electronics Engineering Technicians**
 Engineering Managers***
 Environmental Engineers***
 Humanoid Robotics Designers***
 Industrial Engineering Technicians**
 Industrial Engineers***
 Marine Engineers***
 Mechanical Drafters**
 Mechanical Engineering Technicians**
 Mechanical Engineers***
 Mining Engineers***
 Nuclear Engineers***
 Nuclear Technicians**
 Packaging Engineers***
 Petroleum Engineers***

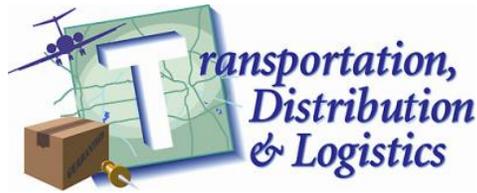
Petroleum Technicians**
 Software Engineers***
 Solar Engineers***
 Space Systems Technicians**
 Technical Writers***
 Tool Designers***

◆ **Science and Math Pathway**

Agronomists***
 Animal Scientists***
 Anthropologists***
 Archaeologists***
 Astronomers***
 Biological Scientists***
 Biological Technicians**
 Biomedical Engineers***
 Cartographers***
 Chemical Technicians**
 Chemists***
 Computer Programmers***
 Computer Security Specialists**
 Computer Systems Analysts ***
 Enologists***
 Environmental Scientists***
 Environmental Technicians**
 Food Processing Technicians**
 Food Technologists***
 Geneticists***

Geographers***
 Geologists***
 Horticulturists***
 Hydrologists***
 Information Scientists***
 Insurance Underwriters***
 Job Analysts***
 Materials Scientists***
 Mathematical Technicians**
 Mathematicians***
 Metallurgists***
 Microbiologists***
 Meteorologists***
 Oceanographers***
 Paleontologists***
 Physicists***
 Research Analysts***
 Scientific and Engineering
 Programmers***
 Seismologists***
 Sociologists***
 Soil Conservationists***
 Statistical Clerks*
 Statisticians***
 Veterinarians***
 Veterinary Researchers***
 Wildlife Biologists***
 Zookeepers***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Microsoft Office Composition CS-AP Computer Science CS-Physical Computing Foods I, II, III Global Language Introduction to Marketing Intro to Production Welding Metals-Material Processes Metals II-Machine Tool App Money Matters Personal Financial Management R.E.A.L. Keyboarding Woods-Material Processes	Job Shadow Business Opportunities Internship School-Based Enterprise <ul style="list-style-type: none"> ● Adv. Manufacturing - Warrior Manufacturing Youth Apprenticeship <ul style="list-style-type: none"> ● Agriculture, Food and Natural Resources ● Information Technology ● STEM 	Astronomy Club Athletics/Intramurals Computer Club FCCLA FFA Gaming Club Math Club Mock Trial Outdoor Club Robotics Club Science Olympiad SkillsUSA Solar Olympics Tech Crew



Careers in transportation, distribution and logistics encompass the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water. This also includes services such as transportation, infrastructure planning, management, logistics services, mobile equipment and facility maintenance.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Travel
- See well and have quick reflexes
- Solve mechanical problems
- Design efficient processes
- Anticipate needs and prepare to meet them
- Drive or ride
- Move things from one place to another

Personal qualities that describe me:

- Realistic
- Mechanical
- Coordinated
- Observant
- Planner

School subjects that I like:

- Math
- Trade and Industry courses
- Physical Sciences
- Economics
- Foreign Language

PATHWAYS IN THIS CLUSTER

- ◆ 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

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS
<p>AP Statistics</p> <p>Auto Awareness</p> <p>Earth Science</p> <p>Foundations of Leadership</p> <p>Intro to CAD/CAM</p> <p>Intro to Production Welding</p> <p>Intro to Power Mechanics</p> <p>Microsoft Office</p> <p>Occupational Mechanics I, II</p> <p>Physics; AP Physics</p> <p>Speech</p>	<ul style="list-style-type: none"> ◆ Facility & Mobile Equipment Maintenance Pathway: Intro to Engineering Design PLTW-IED Principles of Engineering PLTW-POE Computer Integrated Manufacturing PLTW-CIM Engineering Design & Development PLTW-EDD ◆ Health, Safety & Environmental Management Pathway: Intro to Engineering Design PLTW-IED Principles of Engineering PLTW- POE Civil Engineering & Architecture PLTW-CEA Engineering Design & Development PLTW-EDD ◆ Sales & Service Pathway: Intro to Marketing, Hospitality & Tourism Mktg, Adv. Marketing ◆ Transportation Operations Pathway: Civil Engineering & Architecture PLTW-CEA Engineering Design & Development PLTW-EDD ◆ Transportation Systems/Infrastructure Planning Pathway: Civil Engineering & Architecture PLTW-CEA Engineering Design & Development PLTW-EDD Intro to Engineering Design PLTW-IED Principles of Engineering PLTW-POE <p style="text-align: center;">Courses for the remaining PATHWAYS are the same as listed on the left.</p>
<p><i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals.</i></p>	

CAREER OPTIONS IN TRANSPORTATION, DISTRIBUTION & LOGISTICS

* = Entry Level
 ** = Certificate, Technical or Associate Degree or Apprenticeship
 *** = Bachelor or Advanced Degree

◆ Facility and Mobile Equipment Maintenance Pathway

Aircraft Engine Mechanics**
 Aircraft Mechanics**
 Auto Body Technicians**
 Automobile Painters*
 Automobile Parts Salespersons*
 Automotive Master Mechanics **
 Avionics Technicians**
 Bicycle Technicians*
 Car Wash Attendants*
 Diesel Technicians**
 Electromechanical Technicians**
 Gasoline Engine Technicians**
 Heavy Construction Equipment Technicians**
 Industrial Truck Technicians**
 Marine Oilers**
 Motorcycle Mechanics**
 Rail and Track Laying Equipment Operators*
 Service Station Attendants*
 Technician, Mechanic, and Repairer Supervisors**
 Tire Repairers and Changers*
 Windshield Installers**

◆ Health, Safety and Environmental Management Pathway

Environmental Scientists***
 Environmental Technicians**
 Hazardous Waste Specialists***
 Industrial Waste Inspectors***
 Nuclear Technicians**
 Public Health Sanitarians***
 Security Consultants**
 Waste Disposal Attendants*

◆ Logistics Planning and Management Services Pathway

Industrial Clerks**
 Logisticians***

◆ Sales and Service Pathway

Reservation and Ticket Clerks*
 Travel Agency Managers***
 Travel Agents***

◆ Transportation Operations Pathway

Air Traffic Controllers***
 Airline Pilots**
 Astronauts***
 Boat and Barge Operators**
 Brake Couplers*
 Bridge and Lock Tenders*
 Bus Drivers*
 Deckhands*
 Delivery Drivers*
 Flight Attendants**
 Great Lakes Ship Officers**
 Heavy Truck Drivers**
 Highway Maintenance Workers*
 Light Truck Drivers**
 Locomotive Engineers (must be promoted)*
 Material Moving Equipment Operators**
 Mining Managers***
 Parking Lot Attendants*
 Petroleum Plant Operators**
 Railroad Conductors and Yardmasters* (must be promoted)
 Taxicab Drivers*
 Transportation and Material Moving Supervisors**

Transportation Operations Managers**
 Vending Machine Servicers**

◆ Transportation Systems/Infrastructure Planning, Management and Regulation Pathway

Cartographic Technicians**
 Mechanical Engineering Technicians**
 Mechanical Engineers***
 Surveying Technicians**
 Switch Tenders*
 Transportation Inspectors**

◆ Warehousing and Distribution Center Operations Pathway

Bridge and Gantry Crane Operators**
 Central Supply Technicians*
 Expeditors*
 Freight, Stock, and Material Handlers*
 Gas Plant Operators**
 Grips*
 Helper, Handler, and Laborer Supervisors* (must be promoted)
 Hoist and Winch Operators*
 Industrial Truck Operators*
 Longshoring Equipment Operators**
 Petroleum Plant Operators**
 Production and Planning Clerks*
 Riggers*
 Transportation and Material Moving Supervisors**
 Truck Crane Operator**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR, STUDENT ORGANIZATIONS & ACTIVITIES
Algebra III Chemistry Global Language Precalculus ; AP Calculus	Job Shadow Youth Apprenticeship ● Transportation, Distribution & Logistics	Athletics/Intramurals Computer Club DECA Forensics Outdoor Club Robotics Club SkillsUSA

AGRICIENCE

TODAY'S AGRICIENCE – MORE THAN YOU'VE IMAGINED

Agriculture and Natural Resources have always been and will continue to be a very important industry to Wisconsin. There are nearly 300 agricultural careers in Wisconsin related to animals, plants, and our natural resources. Twenty-two million people work in agriculture alone and the need for new workers is growing. We focus on three major areas: classroom and hands on learning, work experience, and the FFA. If you take one of these classes we will expose you to as many career opportunities related to agriculture as possible. Not to mention, you will get to do labs and go on field trips that will show you things you have never experienced before. As new technologies and new job opportunities emerge, so will the need for well-trained and educated people. People just like you!

COURSE TITLES	OFFERED	YEAR TAKEN	
Introduction to Agriscience	Semester or Year	9-12	
Conservation	Semester I or II	9-12	
Vet Science	Semester I or II	10-12	
Horticulture	Semester II	10-12	
Advanced Conservation	Semester I	10-12	
YOUTH APPRENTICESHIP PROGRAM			
Agriculture, Food & Natural Resources (AFNR)	1 or 2 Years	11-12	See page 58

INTRODUCTION TO AGRICIENCE

Course: 110021/210021
Credit: .5/Sem. or 1.0/Year
Offered: Semester or Year
Year Taken: 9-12
Prereq: None
Fee: \$5/Sem.

This course is for students interested in animals, plants, and the great outdoors. Check out the new era of agriculture where we will explore the school greenhouse, animals, wildlife, marketing, biotechnology, and much more than you imagined! This class can be taken for a semester or full year. Semesters can be taken during different years as well.

Semester 1 focus: introduction to agriculture, plants, large animals and conservation.

Semester 2 focus: introduction to biotechnology, food science, marketing and small animals.

CONSERVATION

Course: 110041/210041
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: \$5/Sem.

This is a hands-on course for students who love hunting, fishing, trapping, and the great outdoors! In this class you learn about the animals, fish and wildlife you are interested in. If you want to find a career dealing with wildlife this class will help you do that. We explore wildlife habitats, management practices and everything else about wildlife that you can imagine. Activities will include: taxidermy projects, field trip to a fish hatchery, focus on Wisconsin wild animals/fish, scoring deer antlers, and having tons of guest speakers from the DNR who share hands-on activities and information about the wildlife all around us.

VET SCIENCE

Course: 110121/210121
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: \$5/Sem.
Credit: Dual Credit. See [page 6](#).

This is a course for students who love animals and want to learn more about veterinary science. In this course we will study animal anatomy, behavior, feeding, care, reproduction and genetics. By incorporating your own animals and pets into the class you will learn just how important animals are to our lives! Learn more about caring for your pet and what it takes to become a veterinarian. Activities will include: having veterinarian guest speakers, bringing your own pet to school, dissecting a deer's digestive system, analyzing your pet's food and learning basic veterinary procedures.

NTC will grant dual credit to junior and senior students who earn a C+ or better. Sophomore students must earn an A for credit. This course is offered for 3 college level credits for free!!!



NTC Equivalent Class:
 Introduction to Animal Science #10-091-104 (3 credits)
 Department: Animal Husbandry

Note: Course can fulfill 0.5 credit toward high school graduation requirements as a non-lab science. This course will not count as a lab science requirement for college admission.

HORTICULTURE

Course: 210101
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: None
Fee: \$5/Sem.
Credit: Dual Credit, see note below.

This is a hands-on course for students who enjoy plants, creating landscapes, and running a greenhouse from start to finish. You will finish the year with the annual greenhouse plant sale, selling the plants you grew to the community. If you like playing in the dirt, this class will expose you to many job opportunities and teach you some great skills you can use at home. Activities will include: designing and creating landscapes, field trips, growing your own plants in the greenhouse, operating hydroponics systems, pruning trees and learning from greenhouse operators and florists.

Note: Course can fulfill 0.5 credit toward high school graduation requirements as a non-lab science. This course will not count as a lab science requirement for college admission.

Note: Grade 10 – 12 students who take Horticulture and Advanced Conservation in the *same school year* have the opportunity to earn Dual Credit. See West instructor for more details.



NTC Equivalent Class:
 Introduction to Soils #10-093-102 (2 credits)
 Department: Crop Science

ADVANCED CONSERVATION

Course: 110081
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Recommend taking Conservation prior to Advanced Conservation
Fee: \$5/Sem.
Credit: Dual Credit, see note below.

This is a hands-on course that deals with the outdoors and focuses on forestry, wildlife, and land conservation. If you are interested in working outside, or finding a job dealing with natural resources and the DNR, take this class. Learn hands-on from real foresters and DNR officials. Activities will include: tree identification, real deer processing, land zoning/descriptions, controlled burnings, real issues in conservation, spend time outside and at the School Forest, orienteering, soil management, and doing real-life deer population surveys.

Note: Course can fulfill 0.5 credit toward high school graduation requirements as a non-lab science. This course will not count as a lab science requirement for college admission.

Note: Grade 10 – 12 students who take Advanced Conservation and Horticulture in the *same school year* have the opportunity to earn Dual Credit. See West instructor for more details.



NTC Equivalent Class:
 Introduction to Soils #10-093-102 (2 credits)
 Department: Crop Science

ART

Artists do more than just paint pictures or sculpt with clay. Artists are curious individuals who are driven by the desire to create and a willingness to take chances. Artists see and think about the world in a special way, which they share with others through the works they create. You may think there are a select, special few with art talent...and then there are the rest. Wrong! The fact is you have art skills! The trouble is, you just don't realize it yet. By signing up for art, you will learn and discover talents you never thought you had. Art is for everyone.

COURSE TITLES	OFFERED	YEAR TAKEN	
Art Foundations	Year	9-12	
Drawing and Painting	Year	10-12	
Advanced Drawing	Semester I	11-12	
Advanced Painting	Semester II	11-12	
Ceramics I	Semester I	10-12	
Ceramics II	Semester II	10-12	
Sculpture	Semester I	10-12	
Advanced 3D	Semester II	10-12	
Studio Art	Year	12	
AP Studio Art	Year	12	

Which Art Course Should You Take?

Unless you are a junior or senior standing, Art Foundations is the prerequisite class for level-one art courses. This year-long multi-media art course has been developed as an introduction to drawing, painting, ceramics, sculpture, and design. Art Foundations students will explore and build on various two-dimensional and three-dimensional mediums.

As a junior or senior standing, you have the opportunity to begin with a level-one art course.

Students who successfully complete Art Foundations, a level-two or advanced art course, and obtain a West Art Teacher's approval, have the opportunity to take Studio Art or AP Studio Art their senior year.

ART FOUNDATIONS

Course: 112061/212061
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: None
Fee: \$11/Sem.

Art Foundations is the initial year-long art course. The Art Foundation's curriculum is an exploration of drawing, painting, sculpture, ceramics, and design, in both two and three-dimensional mediums. Students will incorporate the Elements of Art, Principles of Design, and the study of Art History into their artwork. Emphasis is on initial techniques in various media and exploration.

DRAWING AND PAINTING

Course: 112111/212111
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Art Foundations or junior/senior standing.
Fee: \$11/Sem.

This year-long course will explore drawing and painting in a variety of styles and mediums. Students will build their knowledge of drawing and painting techniques throughout the year. Continued study in art history, elements of art, and principles of design will be incorporated into this course. Portfolio development will be introduced. ***This course may be taken only once.**

ADVANCED DRAWING

Course: 112131
Credit: .5/Sem.
Offered: Semester I
Year Taken: 11-12
Prereq: Drawing & Painting
Fee: \$11/Sem.

This is a semester course offered to art students who have successfully completed Drawing and Painting. In-depth drawing techniques will be explored with emphasis on compositions that incorporate advanced gradation, patterning and visual texture. Students will continue development of their own unique drawing style. Student art portfolios will be further developed in this course. ***This course may be taken only one semester.**

ADVANCED PAINTING

Course: 212361
Credit: .5/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: Drawing & Painting
Fee: \$11/Sem.

This is a semester course offered to art students who have successfully completed Drawing and Painting. In this course, advanced watercolor and acrylic techniques are applied to two-dimensional surfaces. Students will learn how to construct their own canvases and explore multi-media options in their paintings. Student art portfolios will be further developed in this course. ***This course may be taken only one semester.**

CERAMICS I

Course: 112401
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Art Foundations or junior/senior standing.
Fee: \$15/Sem.

This is a semester course designed for the students who want to be challenged by a pliable three-dimensional medium...CLAY! Students will explore hand-building clay construction, throwing on the potter's wheel, coil building, slab techniques, and surface and glazing methods. ***This course may be taken only one semester.**

CERAMICS II

Course: 212421
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Ceramics I
Fee: \$15/Sem.

This is a semester course offered to art students who have successfully completed Ceramics I. Students will explore advanced construction, throwing and glazing techniques, as well as learn about kiln firing processes. Student art portfolios will be further developed in this course. ***This course may be taken only one semester.**

SCULPTURE

Course: 112121
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Art Foundations or junior/senior standing.
Fee: \$11/Sem.

This is a semester course that is designed for the student who wants to explore art in three-dimensional forms. Many different art mediums, including foam core, clay, wood, and more, will be incorporated into large and small-scale sculptures. Students will learn and apply the following basic sculpting techniques: additive, subtractive, carving, and construction. ***This course may be taken only one semester.**

ADVANCED 3D

Course: 212541
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Sculpture or Ceramics II
Fee: \$11/Sem.

This is a semester course for students who have successfully completed either Sculpture or Ceramics II. Students will further develop skills using sculpture media and techniques. A specialty area will be individually selected based on previous 3D art courses taken. Student art portfolios will be further developed in this course. ***This course may be taken only one semester.**

STUDIO ART

Course: 112041/212041
Credit: .5/Sem.
Offered: Year
Year Taken: 12
Prereq: Successful completion of a level-two or advanced art course and Art Faculty Approval.
Fee: \$15/Sem.

Studio Art students will explore problem solving and visual communication. This class offers advanced individualized and student-directed learning, as students explore concept development and master advanced level design skills in the mediums they choose. Students will continue to refine and explore concept development in a personal manner, and strive towards artistic excellence. All students will create a body of work to be displayed at the final art show and develop an artistic portfolio.

Note: Art Instructor signature required to take this course.

AP STUDIO ART

Course: 112051/212051
Credit: .5/Sem.
Offered: Year
Year Taken: 12
Prereq: "A" or "B" grade in a level-two or advanced art course and Art Faculty Approval.
Fee: \$15/Sem.

AP Studio Art is designed for students who are highly motivated and seriously interested in the study of art. AP Studio Art students explore high-level concepts and have the potential to earn college credit. This course demands significant commitment, previous training in art, and requires students to submit a completed portfolio of work to the College Board. All AP students become independent thinkers, apply knowledge of the Elements and Principles of art, and show mastery of advanced level design skills and concepts addressed in a college-level foundation course. Ongoing critical analysis through group and individual critiques provide students with opportunities to learn and analyze both peer's work and their own work.

Note: Art Instructor signature required to take this course.

BUSINESS/MARKETING EDUCATION

Prepare for the future – Plan for success

COURSE TITLES	OFFERED	YEAR TAKEN	
Exploring Business	Semester I or II	9-12	
Business Core	Semester I	9-12	
Introduction to Keyboarding	Semester I or II	9-12	
R.E.A.L. Keyboarding (Realize Essential Applications for Life)	Semester I or II	9-12	
Microsoft Office	Semester I or II	9-12	
Today's Tech Trends	Semester I or II	9-12	
Today's Tech Trends Core	Semester II	9-12	
Personal Financial Management	Semester I or II	10-12	
Personal Financial Management Core	Semester I	10-12	
Management and Entrepreneurship	Semester I	10-12	
Recordkeeping I	Semester I or II	10-12	
Accounting I	Semester I	10-12	
Accounting II	Semester II	10-12	
Accounting III	Semester I	11-12	
Accounting IV	Semester II	11-12	
Business Law	Semester II	10-12	
Introduction to Marketing	Semester I	9-12	
Sports and Event Marketing	Semester II	9-12	
Hospitality and Tourism Marketing	Semester II	9-12	
INTERNSHIP PROGRAMS			
Advanced Marketing	Year	12	
Marketing Internship	Year	12	
Business Opportunities (Employability Skills)	Year	12	
Business Opportunities Internship	Year	12	
APPRENTICESHIP PROGRAM COORDINATION			
Agriculture, Food & Natural Resources (AFNR)	1 or 2 Years	11-12	
Architecture and Construction	1 or 2 Years	11-12	
Arts, A/V Technology and Communication	1 or 2 Years	11-12	
Finance	1 or 2 Years	11-12	
Health Science	1 or 2 Years	11-12	
Hospitality/Lodging/Tourism	1 or 2 Years	11-12	
Information Technology (IT)	1 or 2 Years	11-12	
Manufacturing	1 or 2 Years	11-12	
Marketing	1 or 2 Years	11-12	
STEM (Science, Technology, Engineering & Math)	1 or 2 Years	11-12	
Transportation, Distribution & Logistics (TDL)	1 or 2 Years	11-12	
GENERAL ELECTIVE			
Publications Lab	Year	9-12	May be taken multiple semesters/years

ACCOUNTING I

Course: 114001/214001
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: None
Fee: None

Planning a career in the fields of business, marketing, or finance? Accounting is the language of business. Students learn the procedures involved in completing the accounting cycle. They will complete transactions and prepare financial statements that are necessary for businesses to make financial decisions. Accounting principles and procedures are presented and followed. Accounting is a must in a business career.

ACCOUNTING II

Course: 114011/214011
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Accounting I
Fee: None
Credit: Dual Credit. See [page 6](#).

Accounting II extends the concepts learned in Accounting I. In this course students will record payroll and taxes, notes and interest, and be introduced to partnership and corporation accounting. This course is strongly recommended for anyone planning to enroll in college/university or technical college and as a business major or minor.



NTC Equivalent Class:
 Accounting I #10-101-111 (4 credits)
 Department: Accounting



Lakeland University Equivalent Class:
 ACC 210 – Accounting Principles (3 credits)

ACCOUNTING III (Automated Accounting)

Course: 114021/214021
Credit: .5/Sem.
Offered: Semester I
Year Taken: 11-12
Prereq: Accounting I and II
Fee: None

Advance your career objectives in the business and/or accounting profession. This is for students who (1) want to become accounting clerks upon graduation from high school; (2) want to obtain the accounting skills necessary to advance to the level of junior or assistant accountant; or (3) want to broaden and improve their knowledge, understanding, and application of accounting competencies. Accounting III is an automated (computerized) accounting class. Strongly recommended for anyone planning to enroll in a college/university or technical college as a business major. Field trip opportunity available for hands-on practicum experience with the Milwaukee Bucks.

Note: Quickbooks certification available.

ACCOUNTING IV (Automated Accounting)

Course: 114031/214031
Credit: .5/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: Accounting I, II and III
Fee: None
Credit: Dual Credit. See [page 6](#).

An extension of Accounting III designed for students who are interested in an accounting or a business-related career. Includes course work in partnerships and corporation accounting, cost accounting, and computerized (automated) use in accounting. Strongly recommended for anyone planning to enroll in a college/university or technical college as a business major.

Note: Quickbooks certification available.



NTC Equivalent Class:
 Quickbooks I #10-101-180 (1 credit)
 Department: Accounting



Lakeland University Equivalent Class:
 ACC 220 – Managerial Accounting (3 credits)

ADVANCED MARKETING

Course: 114301/214301
Credit: 1.0/Year
Offered: Year
Year Taken: 12
Prereq: Intro to Marketing and Sports & Events or Hospitality & Tourism Marketing, Senior and consent of Instructor
Fee: None
Credit: Dual Credit. See [page 6](#).

Marketing II takes the understanding of marketing to a new level. Students will also study the character traits necessary to become successful both personally and professionally, in particular, as they apply to areas of management. Classroom instruction will include both large and small group instruction with emphasis on team work through small group projects. Students combine this course with Marketing Internship and participation in the student organization. Focusing on individual talents, abilities, and interests, this class explores careers and workplace readiness, advanced-marketing applications, and human relations. Advanced Marketing is a "must have" for students interested in marketing careers. Recommended courses include Management and Entrepreneurship, R.E.A.L. Keyboarding, Today's Tech Trends, Microsoft Office, and Accounting.



NTC Equivalent Classes:
 Marketing Principles #10-104-172 (3 credits)
 Department: Marketing

BUSINESS CORE

Course: 114041
Credit: .5/Sem.
Offered: Semester I
Year Taken: 9-12
Prereq: Consent of Counseling and/or Special Education Department.
Fee: None

This course is designed for students who need instruction in basic keyboarding. Areas of study to include career exploration, employment skills, and consumer information, as well as software programs, which include Google Drive and Microsoft Word. Keyboarding of class assignments using the correct format will be included such as writing reports and papers.

Note: Student must successfully complete Business Core semester 1 or a Keyboarding class to advance to Today's Tech Trends Core semester 2.

This course is also listed on [page 113](#) of the handbook.

BUSINESS LAW

Course: 114361/214361
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: None
Fee: None

The Business Law course is designed to provide students with an overview of our legal system, including statutes and regulations that affect businesses, families, and individuals in a variety of ways. Knowledge of business law is particularly useful because all students eventually assume the role of citizen, worker, and consumer in society. Students will learn about various types of laws, courts, legal systems and develop an understanding needed to make legal decisions. Specifically, students will learn about civil and criminal law including employment rights, small claims court, computer law, bankruptcy, financial crimes, and contracts. Real-world examples and cases help students apply their knowledge of contract and property law. The material covered in the Business Law course is reinforced and enhanced through the use of technology, guest speakers, videos and hands-on, project-based activities whenever possible. In addition, because experiential learning is an important aspect of all business courses, a field trip to the Courts or other law-related destination may also be offered.

BUSINESS OPPORTUNITIES

Course: 114171/214171
Credit: 1.0/Year
Offered: Year
Year Taken: 12
Prereq: Senior
Fee: None

Business Opportunities is designed to help prepare students for success after high school. The course includes work in the following areas: career exploration, training and schooling options, employment-seeking skills, successful work attitudes, lifetime business skills, and other related personal and business skills. Using the computer to make your work easier, developing organization skills, and goal setting are a part of the course activities. The course content will be helpful to you if you plan on seeking employment upon graduation, attending a technical college or trade school, joining the military or attending a college or university. Weekly discussions are based upon students' work experiences and life happenings.

BUSINESS OPPORTUNITIES INTERNSHIP

Course: 114181/214181
Credit: 2.0/Year
Offered: Year
Year Taken: 12
Prereq: Senior. Must be enrolled in Business Opportunities for the entire year or be a mid-term graduate.
Fee: None

A Business Opportunities student may earn two credits per year (one per semester) in addition to class credit (see above) by working in the community an average of 12 - 15 hours per week. The student can be released from school during the afternoon to work or can choose to work the required hours in the evenings or on the weekends. The students may make arrangements with their current employer for internship status or can be assisted in finding a job placement by the internship coordinator. Job placements are based upon student interest, student skills and future career plans. Students are supervised by the Business Opportunities Internship Coordinator and the training site supervisor. Students will pursue the State of Wisconsin Employability Certificate.

EXPLORING BUSINESS

Course: 114351/214351
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: None

A one-semester course designed to provide a basic understanding of business concepts and their importance to our economic system, both locally and internationally. Instruction will include an introduction to business, focusing on international business, economics, management, and business careers. Students will also have the opportunity to work in Wausau West's school-based enterprise, "West-Side Connection".

HOSPITALITY & TOURISM MARKETING

Course: 214541
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: Intro to Marketing
Fee: None

Explore the exciting world of the Hospitality and Tourism Industry! Hospitality and tourism are topics that students can relate to and make their own. After all, everyone goes to restaurants, and many people travel and stay in lodging facilities. These exciting businesses continue to grow and employ a vast number of people. Hospitality and tourism marketing encompasses the management, marketing and operations of restaurants and other food service, lodging, attractions, and recreation events and travel-related services. Authentic community/industry experiences will be applied to classroom instruction in market research, pricing, product/service management, promotion, and selling. Students "learn by doing" through means of progressive exercises, case studies, guest speakers, and role-play by combining basic theory with skills. Focus on orientation to customer service, cultural/economical trends, and career opportunities.

INTRODUCTION TO KEYBOARDING

Course: 114421/214421
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: None
Follow-up Course: Microsoft Office, Today's Tech Trends and/or R.E.A.L. Keyboarding
Credit: Dual Credit. See [page 6](#).



This course is designed for students who have not had or may need additional instruction and practice in basic keyboarding. Course content includes basic keyboarding instruction, letters, and reports. Upon completion of this course, students may choose Microsoft Office, Today's Tech Trends or R.E.A.L. Keyboarding.

NTC Equivalent Class:
 Computer Keyboarding #10-106-178 (1 credit)
 Department: Business Technology

INTRODUCTION TO MARKETING

Course: 114281
Credit: .5/Sem.
Offered: Semester I
Year Taken: 9-12
Prereq: None
Fee: None

Did you know that over 75% of all jobs in the U.S. involve some aspect of marketing? This introductory course is perfect for all students who want to learn more about business and marketing. The course explores consumer behavior, advertising, promotions, market research, selling, and public relations. Students participate in hands-on projects, gain insight from guest speakers and get a chance to show their creative side. See for yourself why students have called Introduction to Marketing the "most important, practical class I've ever had". The student will also be required to participate in the marketing experience by working in the marketing lab/school store daily operations. DECA membership is optional. Students enrolled in Introduction to Marketing are encouraged to enroll in Sports & Event Marketing and/or Hospitality & Tourism Marketing. Sports & Event Marketing or Hospitality & Tourism Marketing is required as a prerequisite for Advanced Marketing. Recommended courses include Business Management, R.E.A.L. Keyboarding, Tech Apps, Microsoft Office, and Accounting.

MANAGEMENT AND ENTREPRENEURSHIP

Course: 114161
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Sophomore, Junior or Senior
Fee: None

An entrepreneur is a person who attempts to earn a profit by taking the risk of operating a business enterprise. Do you want to be your own boss? If you answered yes, then this class is a must and will help you understand what it is like to be an entrepreneur and what is involved in starting a business. Business is a part of everyone's daily life – as consumers, employees and owners. In this course, students will explore the environment, human side and functional approach to business. Students will explore the world of business ownership and the important characteristics of an entrepreneur's work ethic. Specifically, students will be creating their own small business through a company program.

MARKETING INTERNSHIP

Course: 114311/214311
Credit: 2.0/Year
Offered: Year
Year Taken: 12
Prereq: Intro to Marketing and Sports & Events or Hospitality & Tourism Marketing, Senior and consent of Instructor
Fee: None

The Marketing Internship is an opportunity for students to earn credits, earn money, and gain valuable work experience, all at the same time. Students are released from school in the afternoon to report to their workstations. Marketing Internship is for students who are concurrently enrolled in the Advanced Marketing course. These students are seriously pursuing a career in the field of marketing or business and wish to gain some practical experience in marketing related local business. The student will be required to maintain employment records, adhere to school policies and be an active and interested employee. Many classroom activities and assignments are based upon the "on the job" experiences. Graduates of this course have gone on to successful career opportunities with their high school placements. Students who are enrolled in Marketing Internship complete the Cooperative Education Skills Standards Certificate Program and are issued a state-endorsed certificate from the State Superintendent of Public Instruction. This certificate is a representative statement of the skills obtained through the Marketing Internship learning experience. This certificate is also endorsed by supporting industry and education organizations thus enhancing a student's future workplace portfolio.

MICROSOFT OFFICE

Course: 114231/214231
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: R.E.A.L Keyboarding or Intro to Keyboarding or Proficient Keyboarding Skills
Fee: None
Follow-up Course: Business Opportunities
Credit: Dual Credit. See [page 6](#).



A must computer class for ALL students! Microsoft Office proficiency is one of the top five most commonly required skills posted in on-line job descriptions. Word, Excel, and PowerPoint are major areas of instruction. Business and Industry leaders stress the need for these skills for their current and future employees. Students may become certified after completion of this course.

NTC Equivalent Class:
 Office 2016 Level 1 #10-103-222 (3 credits)
 Department: Business Technology

PERSONAL FINANCIAL MANAGEMENT

Course: 114241/214241
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: None
Credit: Dual Credit. See [page 6](#).



UNIVERSITY OF
 WISCONSIN
 OSHKOSH

Money is the one thing that each and every student must learn about as they prepare to enter into adulthood. Become independent by making wise money decisions. With average household credit card debt exceeding \$15,000 and average student loan debt close to \$35,000, building money skills is critical. Topics covered will be: cash, credit, saving, investing, budgeting, insurance, identity theft, taxes, car and home ownership, renting, among other topics. Learn skills to help you achieve life goals.

Course meets Financial Literacy requirements as set forth by Wausau School District.

NTC Equivalent Class:
 Cents & Sensibility #10-809-101 (1 credit)
 Department: General Education

UW Oshkosh Equivalent Class:
 Business 231 – Personal Finance (3 credits)

PERSONAL FINANCIAL MANAGEMENT CORE

Course: 114511
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Consent of Counseling, Business and/or Special Education Department
Fee: None

This course is designed to help students develop their ability to make personal financial decisions, become wise earners, spenders, and savers and develop relevant "Money Skills". The financial choices that students face today have expanded well beyond what their parents or grandparents dealt with as teens and young adults. With average household credit card debt exceeding \$15,000 and average student loan debt close to \$35,000, building money skills is critical. Topics covered will be: cash, credit, saving, investing, budgeting, insurance, identity theft, taxes, car and home ownership, renting, among other topics. Learn skills to help you achieve life goals.

Course meets Financial Literacy requirements as set forth by Wausau School District.

R.E.A.L. KEYBOARDING

Course: 114251/214251
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: Proper keyboarding technique and speed above 25 wpm
Fee: None
Follow-up Course: Microsoft Office and/or Today's Tech Trends
Credit: Dual Credit. See [page 6](#).

Keyboarding is more essential than ever. Learn how to get twice as much done in half the time! This course presents applications EVERY student will be expected to know for college, work, and upcoming state assessments. Proper formatting for letters, reports, and tables is provided. Upon completion of this course students may choose Microsoft Office or Today's Tech Trends.



NTC Equivalent Class:
 Keyboarding II #10-106-129 (1 credit)
 Department: Business Technology

RECORDKEEPING I

Course: 114321/214321
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: Sophomore, Junior or Senior
Fee: None

Students will find this course interesting and practical as they learn recordkeeping skills for personal and entry-level employment. Areas covered are checks, bank statements, salesclerk records, purchase records, budgeting, credit cards, loans, interest, payroll records, and recording activities for a small business. This course is intended for students that may have difficulty with Accounting I.

SPORTS & EVENT MARKETING

Course: 214291
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: Intro to Marketing
Fee: None

This course is designed to provide the student with the skills necessary to apply marketing concepts to the sports and entertainment industries. Students will explore the connection between marketing and the sports and entertainment industries, focusing on promotion and sales. The areas of study include event promotion, sponsorship, development and sales, event management, and the basic functions of marketing as they apply to the sport and entertainment industries. Students will also see how marketing operates in the movie, music, and theatre industries. If you are interested in sports and entertainment or want to tap into your creative side, this is the class for you! DECA membership is optional. Recommended courses include Business Management, R.E.A.L. Keyboarding, Tech Apps, Microsoft Office, and Accounting.

TODAY'S TECH TRENDS

Course: 114271/214271
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: None

Get a jump on technology. The course content will change as fast as technology does. Topic areas may include but are not limited to Prezi, Video Editing (Animoto, WeVideor, and more), Google Docs, Social Media (Facebook, Twitter, LinkedIn, Vine), Glogster, YouTube, iPad Apps, Blogging, Emaze, Coding, Wix, Weebly, and Pod Casting and Digital Citizenship. Take projects for your other classes to the next level.

TODAY'S TECH TRENDS CORE

Course: 214581
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: Consent of Counseling, Business and/or Special Education Department
Fee: None

This course will focus on technology at a basic level. Topics may include WeVideo, Google Docs, social media sites, discussion boards, and Digital Citizenship and Microsoft programs.

Note: Student must have successfully completed Business Core semester 1 or a Keyboarding class.

All marketing students have the opportunity and are encouraged to join DECA (an Association of Marketing Students) to enhance the co-curricular education of students with interests in marketing, management and entrepreneurship. DECA helps students develop skills and competence for marketing careers, build self-esteem, experience leadership, and practice community involvement. Students will have the opportunity to participate in district, state and national levels.

Students enrolled in Intro to Marketing, Sports & Events Mktg, Hosp & Tourism Mktg and Advanced Marketing will be involved in the operation of the School Store/marketing lab, the West Side Connection. Students will oversee all aspects of a school store including management, merchandising, apparel design, and overall operations.

YOUTH APPRENTICESHIP PROGRAMS

AGRICULTURE, FOOD & NATURAL RESOURCES APPRENTICESHIP (AFNR)

Course: AG WS I
110131/210131
Course: AG WS II:
110141/210141
Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)
Offered: One or Two Year Program
Year Taken: 11 and/or 12
Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.
Required: Students need to have taken at least **two semesters of Agriscience Classes.**

The Agriculture, Food & Natural Resources Apprenticeship Program is designed to provide students with the technical skills and paid work-based training and knowledge to obtain advanced standing in any technical college or university system related to an agriculture or agri-business study of interest. The student will develop skills in Vet Science and Horticulture, Agriculture Mechanics, Crop Production or Dairy and Livestock Production, Agri-business, Animal Competencies or Plant and Soil competencies.

See Mr. Joe Staszak in the Agriscience Department (Rm. 170) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

ARCHITECTURE AND CONSTRUCTION

Course: Construction I
WS 124351/224351
Course: Construction II
WS: 124361/224361
Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)
Offered: One or Two Year Program
Year Taken: 11 and/or 12
Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.
Required: PLTW classes

The Architecture and Construction apprenticeship is designed to provide students with basic skills pertinent to the construction industry. OSHA training and first-aid training are also required during this apprenticeship. The fundamentals included in this pathway are carpentry, electricity, masonry/concrete, mechanical/HVAC, plumbing, and architectural drafting.

See Mr. Theran Peterson in the Technology and Engineering Education Department (Rm. 174) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

ARTS, A/V TECHNOLOGY AND COMMUNICATION

Course: Graphics/Printing I
WS: 114381/214381
Course: Graphics/Printing II
WS: 114391/214391
Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)
Offered: One or Two Year Program
Year Taken: 11 and/or 12
Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.
Required: Graphic Communication I, II and III

The Arts, A/V Technology and Communication Apprenticeship follow on the career pathway of graphic design and printing. This apprenticeship is designed to provide students with the technical skills and on-site, work-based training for entry-level employment in the printing industry.

See Mr. Brian Brandt in the Technology and Engineering Education Department (Rm. 174) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

FINANCE APPRENTICESHIP

Course: Finance I

WS: 114081/214081

Course: Finance II

WS: 114101/214101

Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)

Offered: One or Two Year Program

Year Taken: 11 and/or 12

Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.

Required: 1st Year: Accounting 1 & 2

2nd Year: Business Management and Personal Financial Management

The Finance Youth Apprenticeship Program is designed to provide students with the technical skills and on-site, work-based training for entry-level employment. In addition, it will provide the student with basic skills and requirements needed to enter a post-secondary program in a finance-related field. The student may be exposed to the operations of a bank or credit union or insurance industry through on-site job training. They will also work in the areas of lending, product services, and support services.

See Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

HEALTH SCIENCE APPRENTICESHIP

Course: Health I

WS: 114431/214431

Course: Health II

WS: 114411/214411

Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)

Offered: One or Two Year Program

Year Taken: 11 and/or 12

Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.

Required: 1st Year: CNA course (NTC during the spring/summer-only if interested in becoming CNA), Medical Terminology and Young Adult Medicine

2nd Year: Biology Extended and higher level science

The Health Science Youth Apprenticeship Program is designed to provide students with the technical skills and on-site, work-based training for entry-level employment. In addition, it will provide the student with the basic skills and requirements needed to enter a post-secondary program in a health-related field. The student may pursue becoming a Certified Nursing Assistant (CNA) and enroll in a CNA course outside of Wausau West. A CNA will become familiar with the operations of a hospital or nursing home. Other areas include dietary, pharmacy, dental, optometry, and PT.

See Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

HOSPITALITY/LODGING/TOURISM APPRENTICESHIP

Course: WS I 114551/214551

Course: WS II 114601/214601

Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)

Offered: One or Two Year Program

Year Taken: 11 and/or 12

Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.

Required: Intro Mktg and Hosp & Tourism Mktg

The Hospitality/Lodging/Tourism Apprenticeship Program is designed to provide students with skills, knowledge, and paid work-based training in management, marketing, operations of restaurants, and other food service. Other areas include lodging, attractions, recreation events, and travel-related services.

See Mr. Carl Hert (Rm. 134) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

INFORMATION TECHNOLOGY APPRENTICESHIP (IT)

Course: IT WS I
114591/214591

Course: IT WS II
114611/214611

Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)

Offered: One or Two Year Program

Year Taken: 11 and/or 12

Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.

Required: Advanced computer skills and strong interest in supporting hardware & software components in a building/business. Computer Science courses a plus.

The IT Apprenticeship Program is designed to provide students with basic skills pertinent to working with computer devices and application set up and support. The Wausau School district offers an IT Apprenticeship for students who possess strong problem solving and customer service skills. It is for a student who has expressed an interest in an IT, computer, web/Internet, computer design, and/or programming career.

See Mr. John Quinn in the Computer Science/Math Department (Rm. 204) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

MANUFACTURING APPRENTICESHIP

Course: MFG WS I
124511/224511

Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)

Offered: One or Two Year Program

Year Taken: 11 and/or 12

Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.

Required: Machine Tool Applications or Introduction to Welding

Recommended: Advanced Manufacturing

The Welding/Manufacturing Apprenticeship Program is designed to provide students with the technical skills and paid work-based training and knowledge associated with production welding. The students will develop skills in the following welding processes; SMAW, GTAW, GMAW and FCAW, as well as the following cutting processes; Oxyfuel, Air Carbon, Plasma and Laser. Manufacturing students will develop skills in the following manufacturing processes: milling, turning, grinding, and sawing.

See Mr. Nick Polak in the Technology and Engineering Education Department (Rm. 174) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

MARKETING APPRENTICESHIP

Course: MKT WS I
114341/214341

Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)

Offered: One or Two Year Program

Year Taken: 11 and/or 12

Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.

Required: Intro to Marketing. Students need to have at least two semesters of Marketing/Business classes

Recommended: Management & Entrepreneurship and Advanced Marketing

The Marketing Youth Apprenticeship is designed to provide students with the technical skills and on-site, work-based training for entry-level employment in the marketing field. In addition, it will provide the student with basic skills and requirements needed to enter a postsecondary program in a marketing related field. Other areas may include professional selling, merchandising, marketing research, and marketing management. Students need to have instructor approval to seek out this opportunity.

See Mr. Carl Hert (Rm. 134) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

STEM APPRENTICESHIP (SCIENCE, TECHNOLOGY, ENGINEERING & MATH)

Course: STEM WS I
124521/224521
Course: STEM WS II:
124531/224531
Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)
Offered: One or Two Year Program
Year Taken: 11 and/or 12
Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time.
Recommended: (1st Year) PLTW- Principles of Engineering (2nd Year), Specialty Engineering Course (PLTW-DE, CEA, CIM, CSE, EDD)

The Science, Technology, Engineering and Math (STEM) Apprenticeship is designed to provide students with the technical skills and on-site, work-based training for entry-level employment. In addition, it will provide the student with the basic skills and requirements needed to enter a post-secondary program in a STEM-related field. The student will be exposed to skills in the following areas: solid modeling, engineering design, drafting and dimensioning, design for manufacturing, lean manufacturing, and applied math and science.

See Mr. Theran Peterson in the Technology and Engineering Education Department (Rm. 174) or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143).

TRANSPORTATION, DISTRIBUTION & LOGISTICS APPRENTICESHIP (TDL)

Course: Auto I
WS 124091/224091
Course: Auto II
WS 124111/224111
Credit: 2 credits (1st year – 1 per sem.) 2 credits (2nd year – 1 per sem.)
Offered: One or Two Year Program
Year Taken: 11 and/or 12
Prereq: Junior or Senior, 2.5 GPA, good attendance record & an application and acceptance at registration time. Students need to have taken the following: Transportation Power & Energy I & II.
Required: Occupational Mechanics I (1st year) and Occupational Mechanics II (2nd year) offered at Wausau East

The Transportation, Distribution & Logistics Apprenticeship Program is designed to provide students with the technical skills and paid work-based training and knowledge to obtain advanced standing in any technical college or university system related to an automotive field of interest. The student will continue to build on their school based knowledge on the worksite in the following ASE (Automotive Service Excellence) areas: Brakes, Engine Performance, Electrical/Electronic Systems, and Suspension & Steering.

See Mr. Mark Poppe in the Wausau East Technology Department or Mrs. Taryn Fuller in the Business/Marketing Department (Rm. 143) at Wausau West.

GENERAL ELECTIVE

PUBLICATIONS LAB

Course: 114561/214561

Credit: .5/Sem.

Offered: Year-long (or semester long with instructor consent)

Year Taken: 9-12

Prereq: None

Fee: None

The yearbook (Aurora) and magazine (Warrior's Word) are developed and published in this class. The student staff conduct interviews, write and word process their own stories, sell advertising, design publication pages, take photographs and put together video. Software used includes Adobe Suite (InDesign, Photoshop and Illustrator), Microsoft Office Suite (Word and Excel), and web-based social media. Design work is completed using Apple iMacs, and all photography is completed using advanced Nikon cameras.

Opportunities are available for travel to New York (Columbia University), Marquette University, UW-Oshkosh and other state or national locations for student journalism workshops and competitions.

Publications lab is student-directed. Student staff meets in a large group setting once weekly. The remaining class time is determined independently to fit into each student's schedule.

Traditionally, student's work in the Aurora and Warrior's Word has been recognized at the district, state and national level.

This course may be taken more than once as content and leadership positions change yearly. Experienced students are valued and given increased opportunities and responsibilities.

This class is not approved by the NCAA Eligibility Center.

ENGLISH

All students are required to take 4 years (8 semesters) of English. Within that total, each student must have a minimum of three semesters of literature and three semesters of composition.

COURSE TITLES	OFFERED	YEAR TAKEN
English 9	Year	9
English 9 Core	Year	9
English 10 American Studies and Composition	Year	10
English 10 American Studies and Composition Core	Year	10
LITERATURE COURSES		
Film as Literature	Semester II	10-12
Film as Literature Core	Semester II	10-12
Literature Seminar	Semester I	11-12
Multi-Cultural Literature	Semester I or II	11-12
Drama Literature	Semester I	10-12
Novels	Semester I or II	11-12
British Literature	Semester I or II	11-12
World Literature	Semester I or II	11-12
Advanced Placement Literature	Semester II	12
COMPOSITION COURSES		
Broadcasting-Oral Communication	Year or Sem I or II	9-12
Speech	Semester I or II	10-12
Introductory Creative Writing	Semester I or II	10-12
Composition	Semester I or II	10-12
Real World Writing	Semester II	11-12
Creative Writing	Semester II	11-12
Advanced Composition	Semester I	12
GENERAL ELECTIVE		
Foundations of Leadership	Semester I or II	10-12

ENGLISH 9

Course: 115161/215161

Credit: 1.0/Year =
.5 Composition/.5 Literature

Offered: Year

Year Taken: 9

Prereq: None

Fee: \$15/Novel Fee

English 9 is a course designed to explore various literary genres. The course includes a study of the short story, novel, mythology, epic tale, drama, non-fiction, and research skills. In addition, speaking and listening skills are emphasized. Writing units will also be incorporated in each area of study, with an emphasis on developing meaningful ways for students to respond to literature. Freshman English provides a foundation for all students to develop in the language arts and be successful in high school. All course curriculum has been developed in alignment with the Common Core Standards.

ENGLISH 9 CORE

Course: 115171/215171
Credit: 1.0/Year =
 .5 Composition/.5 Literature
Offered: Year
Year Taken: 9
Prereq: None
Fee: None

English 9 is a course designed to explore various literary genres. The course includes a study of the short story, novel, mythology, epic tale, drama, non-fiction, and research skills. In addition, speaking and listening skills are emphasized. Writing units will also be incorporated in each area of study, with an emphasis on developing meaningful ways for students to respond to literature. Freshman English provides a foundation for all students to develop in the language arts and be successful in high school. All course curriculum has been developed in alignment with the Common Core Standards. **English 9 Core will be conducted at a modified pace to aid students who need additional assistance in reading and writing.**

ENGLISH 10 AMERICAN STUDIES AND COMPOSITION

Course: 115141/215141
Credit: 1.0/Year =
 .5 Composition/.5 Literature
Offered: Year
Year Taken: 10
Prereq: English 9
Fee: \$5/Novel Fee

This course is designed to examine historical periods throughout American Literature and prepare tenth grade students for junior/senior level course work and college readiness. The class includes a study of the short story, novel, drama, poetry, non-fiction, and oral communication skills. Expository, research-based and narrative writing units as well as literary analysis will be incorporated into the course. American Studies and Composition requires critical thinking and employs student assessments that authenticate learning through a variety of student products. English 10 includes grammar, usage sentence structure, and other language skill components.

ENGLISH 10 AMERICAN STUDIES AND COMPOSITION CORE

Course: 115151/215151
Credit: 1.0/Year =
 .5 Composition/.5 Literature
Offered: Year
Year Taken: 10
Prereq: English 9/Core
Fee: None

This course is designed to examine historical periods throughout American Literature and prepare tenth grade students for junior/senior level course work and college readiness. The class includes a study of the short story, novel, drama, poetry, non-fiction, and oral communication skills. Expository, research-based and narrative writing units as well as literary analysis will be incorporated in each area of study. American Studies and Composition requires critical thinking and employs student assessments that authenticate learning through a variety of student products. **American Studies Core will be delivered at a modified pace to aid students who need additional assistance with reading and writing skills.**

LITERATURE COURSES

FILM AS LITERATURE

Course: 215801
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: None
Fee: None

This course is designed for students who have an interest in film analysis. Throughout the course, students will apply critical analysis to film by identifying literary, dramatic and cinematic elements. Oral and written exercises will expand students' understanding of film analysis, film review, scriptwriting, storyboarding and genre studies. Through comparison and contrast activities, students will examine a novel's elements and its adaptation to film. Course elements will emphasize reading, writing and speaking to refine students' language and writing competence.

This class is not approved by the NCAA Eligibility Center.

FILM AS LITERATURE CORE

Course: 215811
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Instructor approval
Fee: None

This course is designed for students who have an interest in film analysis. Throughout the course, students will apply critical analysis to film by identifying literary, dramatic and cinematic elements. Oral and written exercises will expand students' understanding of film analysis, film review, scriptwriting, storyboarding and genre studies. Through comparison and contrast activities, students will examine a novel's elements and its adaptation to film. Course elements will emphasize reading, writing and speaking to refine students' language and writing competence. **Film as Literature Core will be conducted at a modified pace to aid those students who may need additional assistance in reading and writing. Course approval from instructor only.**

This class is not approved by the NCAA Eligibility Center.

LITERATURE SEMINAR

Course: 115251
Credit: .5/Sem.
Offered: Semester I
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to acquaint the student with a wide variety of fiction and non-fiction literature including poetry, short stories and novels. The focus will be on reading for enjoyment. It is flexible enough to accommodate the good reader as well as the average or below-average reader.

This class is not approved by the NCAA Eligibility Center.

MULTI-CULTURAL LITERATURE

Course: 115271/215271
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: \$2

Multi-Cultural Literature may include the following themes: African American, Latino, Native American, Asian American, and LGBTQ among others. Students explore and discuss a wide array of literature by American ethnic and minority writers: the writer's voice, elements of deep culture, prejudice, stereotypes, and common themes across cultures. Those who enjoy reading and discussing literature should consider this course.



DRAMA LITERATURE

Course: 115111
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: None
Fee: None

This course examines the drama genre from its origins in ancient Greece to the modern stage. Students will apply critical analysis to a selection of plays representative of the major shifts in the genre, looking at both literary and theatrical elements. There will be an emphasis on reading, writing, and speaking skills, including a presentation requirement.

This class is not approved by the NCAA Eligibility Center.

NOVELS

Course: 115281/215281
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to introduce the student to the novel as an art form. **Graphic Novels** will be the primary focus of the coursework. Students will be expected to be involved in elements of the English Language Arts classroom including reading, writing, speaking and listening. Critical Analysis of the **Graphic Novel** will be an expectation. Potential novel titles may include *Persepolis*, *The Arrival*, *Maus* and others along with complimentary literature.

BRITISH LITERATURE

Course: 115041/215041
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course will trace the development of England's literature from the Anglo-Saxon Period through the 19th century, concentrating on such authors as Chaucer and Shakespeare. The main goals of the course are to develop the ability to understand, appreciate, and critically analyze the literature of our language's British heritage. Composition will be closely related to students' reading. Those who enjoy reading literature and who are planning to attend college or take Advanced Placement Literature should find this course valuable.



WORLD LITERATURE

Course: 115431/215431
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course will survey the literature and philosophy of many world cultures, including a study of author, time period, and literary movements. Students will read and discuss epics, poetry, prose, drama and an independent novel from around the world. An important goal of this class is to discover the enduring human values which unite the different literary traditions of all times, places, and cultures. This class will provide a beneficial foundation for those students planning to attend college or take Advancement Placement Literature.



ADVANCED PLACEMENT LITERATURE

Course: 215031
Credit: .5/Sem.
Offered: Semester II
Year Taken: 12
Prereq: None
Fee: None

The Advanced Placement course in Literature Composition concentrates on fast-paced, in-depth study of great literary works. Novels, drama and poetry from various time periods and cultures will be discussed. A careful critical reading of these works, including an analysis of their literary elements and the author's techniques is a major focus of the course. Through such study, the students will sharpen their awareness of literary devices, the author's craft and cultural connections. Major attention will also be given to the writing of critical essays in the analysis and comparison of these works in regard to genre, language, style, structure, form and theme.

It is suggested that students taking this course should have completed Advanced Composition and should have taken at least one of the following two literature courses: British Literature and/or World Literature. This 2nd semester course is available to seniors only.

Note: Many colleges may grant up to six semester credits for successful completion of the Advanced Placement Literature and Composition Test administered by the College Board in May each year.



COMPOSITION COURSES

BROADCASTING – ORAL COMMUNICATION

Course: 115461/215461
Credit: .5/Sem.
Offered: Sem. I or II, or Year
 *Course can be taken multiple years with instructor consent
Year Taken: 9-12
Prereq: None
Fee: None

This course explores the utilization of oral and written communication as it applies to potential career fields such as news casting, journalism, social media and public service announcement. Coursework will include broadcasts that entail transitions, animation, graphics, news, audio and video technology. Individuals interested in improving their speaking and writing abilities and/or curious about media production might consider this course.

SPEECH

Course: 115381/215381
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: None

This course is designed to give students knowledge and experience in various types of oral communication. The activities included are impromptu, group discussion, and the informative and demonstration speech. Outlining, organization, research and presentation skills will also be stressed.

INTRODUCTORY CREATIVE WRITING

Course: 115291/215291
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: None

Introductory Creative Writing serves as an introduction to some of the major concepts of fiction writing. Students will compose major papers over the course of the semester, as well as complete daily assignments related to improving the planning and organizing of a piece of writing. Writing instruction and technical skills such as verb tense paragraphing, dialogue and punctuation will take place within each unit. Class forums will be set up so that students may use their time to learn and plan the major writing assignments, or to conference with the teacher. Finally, an independent writing portfolio project serves as the course's final exam and provides concrete evidence of the student's growth throughout the semester as a writer.

COMPOSITION

Course: 115231/215231
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: \$2

Composition is non-fiction writing course based on information, experience, and opinion. Student writing ranges from the explanation of thoughts and feelings to more academic papers and essays. Essay assignments will include opinion, definition/illustration, persuasion, comparison/contrast, and research-based position writing. Attention will be given to sentence structure, paragraph development, grammar, vocabulary, and spelling. The classroom writing and discussion model pays particularly close attention to enhancing the students' familiarity with the Writing Traits 6+1 model.

REAL WORLD WRITING

Course: 215441
Credit: .5/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: None
Fee: None

Real World Writing is a course that emphasizes expository composition skills. It reviews and strengthens the writing process, assists students in creating writing samples in sequential levels of difficulty, helps students to recognize the foundation of good composition and develops students' confidence in their own writing abilities.

This class is not approved by the NCAA Eligibility Center.

CREATIVE WRITING

Course: 215061
Credit: .5/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: "A/B" grade in Sophomore level writing course or instructor's approval
Fee: \$2

This advanced course is designed for juniors and seniors seriously interested in writing. Like Introductory Creative Writing, it emphasizes creative rather than research skills. However, Creative Writing is less structured. Generally, students are free to develop what they do best; at times, all class members are required to do the same assignment. Emphasis is given to the importance of an audience. Therefore, students will be involved in sharing, reading, and offering constructive criticism. Students will conference with instructor for individualized instruction throughout the semester.

ADVANCED COMPOSITION

Course: 115001
Credit: .5/Sem.
Offered: Semester I
Year Taken: 12
Prereq: None
Fee: None

This college prep writing course will focus on argumentative composition above and beyond the 5 paragraph essay. Students will expand their writing repertoire by completing investigative, problem-solution, oppositional viewpoint and critical analysis essays. Follow-up seminar presentations will highlight argumentative efforts explored in the class. Author's attention to organization, style, voice, word choice and conventions are stressed throughout. The course demands a high level of rigor that one would expect from a college prep course including AP writing experiences for all disciplines.

GENERAL ELECTIVE

FOUNDATIONS OF LEADERSHIP

Course: 115531/215531

Credit: .5/Sem.

(*this is an elective credit)

Offered: Semester I or II

Year Taken: 10-12

Prereq: None

Fee: None

Vince Lombardi once said, "Leaders aren't born; they are made." The ability to positively lead and to be led exists in each and every person no matter the circumstances. This semester-long course focuses on developing the foundational leadership elements and skills a person needs to self-lead as well as lead others. Course curriculum begins with a focus on developing the purpose-driven individual through self-inventory, reflection and reading various texts. Next, an in-depth study of servant leadership becomes the focus, allowing students to analyze and develop effective skills on how to positively lead groups of people, and why being a leader is so difficult, yet so necessary and purposeful for societal and individual growth. Coursework will include leadership and motivational-theme texts with an emphasis on small-group discussions, reflective journaling, service projects as well as guest speakers.

This class is not approved by the NCAA Eligibility Center.

ENGLISH LEARNER

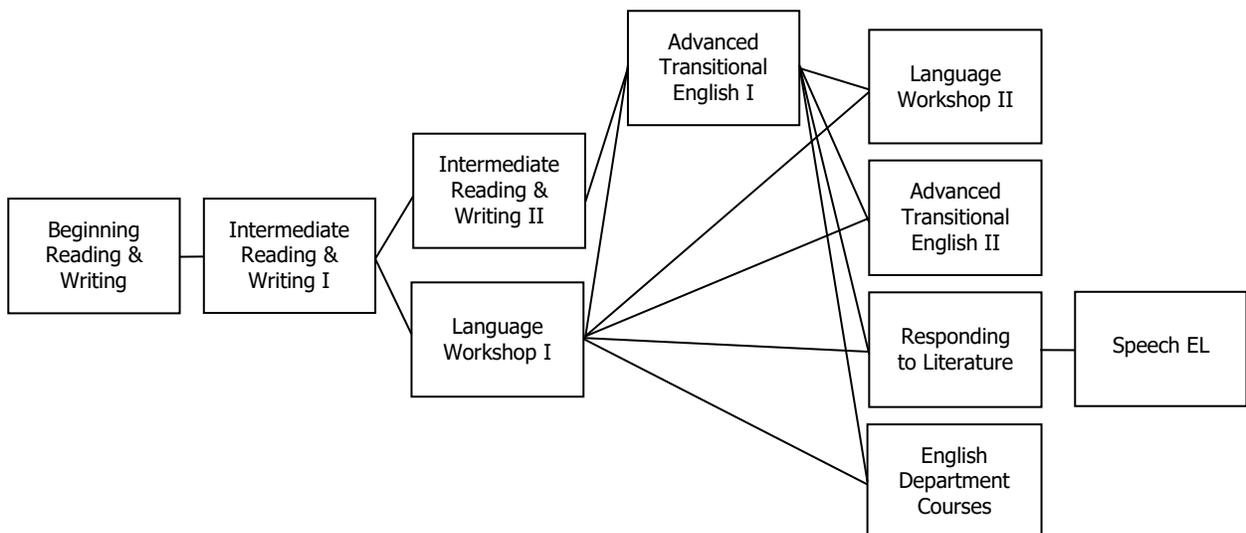
We believe in the right to a free and equal education in practice as well as in theory. We believe in the right to have one's feelings of self-worth not measured by the quality and/or quantity of one's proficiency in English. We believe in the right to mutual cultural acceptance for being linguistically and culturally different but equal.

Course Title	Offered	Year Taken
Beginning Reading & Writing	Year	9-12
Intermediate Reading and Writing I	Year	9-12
Intermediate Reading and Writing II	Year	9-12
Advanced Transitional English	Year	9-12
Advanced Transitional English II	Year	10-12
Speech - EL*	Semester II	10-12
Study Skills - EL	Year	9-12
Language Workshop I	Sem. or Year	9-12
Language Workshop II	Semester II	9-12
Responding to Literature*	Semester I	10-12
EL Integrated Science 9	Year	9-12
Integrated Science 10 Collab	Year	10-12
EL Government	Year	9-12
EL Monitoring	Sem. or Year	9-12
EL English 9 Resource	Year	9
EL Science 9 Resource	Year	9
EL English 10 Resource	Year	10

*not offered 2021-2022

English Learners register for English courses based on their English proficiency level and acquisition of academic language. EL students are encouraged to take one full credit of English each semester in order to accelerate English acquisition. At the high school level, a student can remain in EL classes for up to four years as it can take as many as 7-10 years to become English proficient.

EL Course Offering Flow Chart



BEGINNING READING & WRITING

Course: 116491/216491
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation
Fee: None

This course is designed for non-native English speakers who are developing a basic understanding of written English at an EP level of 1. The emphasis of this course is to develop students' writing skills by focusing on sentence structure, paragraph structure, transitions, and grammar through the writing process. The reading component addresses individual needs through high-interest literature and explicit instruction in reading, writing and vocabulary development.

INTERMEDIATE READING & WRITING I

Course: 116501/216501
Credit: .5/Sem. or 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation
Fee: None

This course is designed for non-native English speakers who are developing a basic understanding of written English at an EP level of 2 or 3. Students will be writing a variety of expository essays with a focus on sentence structure, paragraph structure, transitions, vocabulary development and grammar. Individual needs are addressed through high-interest literature and explicit instruction in reading, writing and vocabulary development.

INTERMEDIATE READING & WRITING II

Course: 116512/216512
Credit: .5/Sem. or 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation
Fee: None

The second-level of this course is designed for non-native English speakers who are developing their written English skills at an EP level of 3 or 4. Students will continue to write a variety of expository essays with a focus on sentence structure, paragraph structure, transitions, vocabulary development and grammar. Individual needs are addressed through high-interest literature and explicit instruction in reading, writing and vocabulary development.

ADVANCED TRANSITIONAL ENGLISH

Course: 116101/216101
Credit: .5/Sem. or 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation
Fee: None

This course is designed for students with an English proficiency of 4 who, with additional EL support and modification, would be successful in mainstreamed English classes. This course combines the study of literature, writing, and speaking through integrated thematic units covering short stories, the novel and drama. Students will be taught the writing process with an emphasis on planning and organization. All units will include a language study.

ADVANCED TRANSITIONAL ENGLISH II

Course: 116111/216111
Credit: .5/Sem. or 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Teacher Recommendation or Advanced Transitional English
Fee: None

The second level of this course is designed for students with an English proficiency of 4 who, with additional EL support and modification, would be successful in mainstreamed English classes. This course combines the study of literature, writing, and speaking through integrated thematic units covering short stories, the novel and drama. Students will be taught the writing process with an emphasis on planning and organization. All units will include a language study.

SPEECH - EL (not offered 2021-2022)

Course: 215541
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Teacher Recommendation or Advanced Transitional English
Fee: None

This course is designed to give non-native English speakers the experience to acquire formal speaking skills. Students will learn to outline, develop organizational skills, and study the various types of oral communications. Activities may include oral interpretation, group discussion and the informative and demonstration speech.

STUDY SKILLS – EL

Course: 116561/216561
Credit: .25/Sem.
Offered: Year
Year Taken: 9-12
Prereq: None
Fee: None

This course is designed for EL students in 9th – 12th grade who would benefit from extra support in their content area classes. This course aims to assist students in reading comprehension and assignment support revolving around their course selections. It meets for 6 mods per week and is Pass or Fail.

LANGUAGE WORKSHOP I

Course: 116081/216081
Credit: 1.0/Sem. or 2.0/Year
Offered: Sem. or Year
Year Taken: 9-12
Prereq: Teacher Recommendation
Fee: None

This course is designed to prepare students with literacy expertise. A variety of literature and literary response is taught. The course teaches writing forms such as narrative, comparison/contrast, expository and persuasive essays. The course is appropriate for students who have a lexile between 600-750 and an EP of 2 or 3.

LANGUAGE WORKSHOP II

Course: 216091
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: Teacher Recommendation
Fee: None

This course is designed for students with an English proficiency of 4 who, with additional EL support and modification, would be successful in mainstreamed classes. Emphasis will focus on the writing process and responding to literature. Composition class.

RESPONDING TO LITERATURE (not offered 2021-2022)

Course: 116551
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Sophomore, Junior or Senior
Fee: None

The course is designed to provide second language learners with fundamentals for advancement in college-bound literature courses. Students will be required to read, respond to and write about literature. The class will help improve EL students' sentence phrasing, paragraphing, and essay construction in relationship to literature.

EL INTEGRATED SCIENCE 9 (Taught by Science Department)

Course: 122251/222251
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation
Lab Fee: \$5/Sem.

This is a one-year course for EL students. It is an integrated science approach to developing basic skills, knowledge and appreciation of science. The themes studied involve the natural phenomena that affect an individual on a day-to-day basis. The majority of instruction is laboratory based and includes investigations from all five basic disciplines of science (biology, chemistry, earth science, environmental science and physics). Scientific skills, problem solving and critical thinking skills are highly emphasized. This course builds a strong foundation for students as they prepare to move through upper level science classes in the future.

INTEGRATED SCIENCE 10 COLLAB (Taught by Science Department)

Course: 122271/222271
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: EL Integrated Science 9
Lab Fee: \$5/Sem.

This is a one-year course for EL students. It is an integrated science approach to developing advanced skills, critical thinking knowledge and appreciation of science. The theme is directed toward those concerns that our culture must face at the present time and in the future. The majority of instruction is laboratory based and includes investigations from all four basic disciplines of science (Biology, Chemistry, Earth Science & Physics). The nature of the scientific endeavor and the relationship of science and technology to society are emphasized. Language and key concepts are reinforced.

EL GOVERNMENT

Course: 123081/223081
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: None
Fee: None

EL Government is a year-long course open to grades 9 – 12. What is government? How do communities, states, and countries keep in order? How do things get done? How do decisions get made? These are just some of the questions we will look at in EL Government.

EL MONITORING

Course: 116566/216566
Credit: None
Offered: Sem. or Year
Year Taken: 9-12
Prereq: None
Fee: None

This resource is designed for students in grades 9-12 that would benefit from a small amount of support. The student meets with an educator in the EL Resource center to discuss and get help with missing assignments and coursework.

EL ENGLISH 9 RESOURCE

Course: 116571/216571
Credit: .5/Sem.
Offered: Year
Year Taken: 9
Prereq: Teacher Recommendation
Fee: None

This course is specifically designed for EL students who would benefit from extra support in English 9. This course aims to assist students in successful completion of the course and prepare them for English 10. Class will meet for 6 mods per week and is graded Pass or Fail.

EL SCIENCE 9 RESOURCE

Course: 116581/216581
Credit: .5/Sem.
Offered: Year
Year Taken: 9
Prereq: Teacher Recommendation
Fee: None

This course is specifically designed for EL students who would benefit from extra support in Science 9. This course aims to assist students in successful completion of the course and prepare them for Science 10. Class will meet for 6 mods per week and is graded Pass or Fail.

EL ENGLISH 10 RESOURCE

Course: 116591/216591
Credit: .5/Sem.
Offered: Year
Year Taken: 10
Prereq: Teacher Recommendation
Fee: None

This course is specifically designed for EL students who would benefit from extra support in English 10. This course aims to assist students in successful completion of the course and prepare them for their future English electives. Class will meet for 6 mods per week and is graded Pass or Fail.

FAMILY AND CONSUMER SCIENCE

WHAT PLANS ARE YOU MAKING FOR THE REST OF YOUR LIFE?

Family and Consumer Education can provide you with the opportunity to learn life-long skills in your personal and work life. Improve your skills in personal finance, relationships, parenting, healthy eating, furnishing and designing a living environment or consumerism. In addition, you get a head start on your career. Get a jump on life! Sign up today!

Course Titles	Offered	Year Taken	
Foods and Nutrition I	Semester I or II	9-12	
Foods and Nutrition II	Semester I or II	9-12	
Foods and Nutrition III	Semester I or II	10-12	
Food Science	Semester II	10-12	
Life Skills Core	Semester II	9-12	
Family Relations	Semester I	10-12	
Child Development	Semester I or II	9-12	
Early Childhood Services	Semester I or II	11-12	
Aspiring Educators and Internship	Year	12	
Health Occupations I	Semester I	10-12	
Health Occupations II	Semester II	10-12	
Money Matters	Semester II	10-12	



NTC or Nicolet Logo = Dual Credit Possible. See [page 6](#) and/or the Family and Consumer Science Department Leader for further information.

FOODS AND NUTRITION I

Course: 117111/217111
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: \$25

Academic skills are put to practical use in Foods and Nutrition I. Observe the results of accuracy in measurements. Learn culinary skills and techniques for proper preparation and cooking. Topics include nutrition and its relationship to good health, serving sizes, portion distortion, label reading, consumerism and the history of food, to name a few. Food preparation is related to each topic of study.

FOODS AND NUTRITION II

Course: 117121/217121
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: Foods and Nutrition I
Fee: \$25
Credit: Dual Credit. See [page 6](#).

This course is for students passionate about food and their nutrition. The focus of the course will be on the six major nutrients and how each is used by the body. The planning of well-balanced diets and nutritional analysis of diets will be emphasized. You will have the opportunity to practice and apply skills learned in cooking methods, baking, sanitation and nutrition. Students will also acquire skills to create dishes that are visually appealing and full of flavor.



NTC Equivalent Course:
 Nutrition #10-316-107 (2 credits)
 Department: Culinary Arts

FOODS AND NUTRITION III

Course: 117171/217171
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: Foods I and Foods II or instructor approval.
Fee: \$25
Credit: Dual Credit through Nicolet College. See [page 6](#).

This course allows students the opportunity to develop culinary skills as they explore food service techniques. Students will understand the application of math procedures used by preparation, service and management personnel in food service operations. Careers in food service, hospitality and the culinary industry will be examined. Students will learn basic operations of food quality and service as they implement a restaurant through a food service project. Classroom instruction and lab based activities will provide a more in depth understanding of cooking principles, technologies, food science, culinary elements and artistic presentation. Food Service Certification from the State of Wisconsin can be obtained in this course to students who meet the established criteria. College credit may be earned.



Nicolet College Equivalent Course:
 Culinary Math #10-316-115 (2 credits)
 Department: Culinary Arts

FOOD SCIENCE

Course: 217131
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Foods and Nutrition I
Fee: \$20

EAT YOUR SCIENCE! This course studies the production, process, preparation, and evaluation of food. Students in this course will have an opportunity to explore the field of food science and discover related careers. The role of food science in food supplies, preserving the environment, contributing to knowledge of nutrition and food safety, and advances in technology are some topics to be studied. Students will actively participate in experiments related to the fundamentals of chemistry and nutrition. This course will assist students in making science relevant to the "real" world.

Note: Course can fulfill 0.5 credit toward high school graduation requirements as a non-lab science. This course will not count as a lab science for college admission.

LIFE SKILLS CORE

Course: 217221
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-11
Prereq: Consent of Counseling and/or Special Education Department.
Fee: \$25

LIFE – Learning Incredible Skills for Everything!

The focus of this course is to learn independence in the kitchen along with gaining skills in independent living. The class will involve cooking labs where students will be responsible for planning, preparing and cleaning up kitchen materials.

Daily living skills will also be incorporated into classroom instruction. Possible units include laundry, basic housekeeping, child care skills, nutrition and budgeting.

Positive and appropriate communication skills will be stressed throughout the semester. Students will learn how to use I-messages to communicate effectively for what they need.

Upon successful completion of this course students may choose to take Foods and Nutrition I and/or Child Development with teacher approval.

FAMILY RELATIONS

Course: 117081
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: None
Fee: \$6

People frequently tolerate situations, which could be changed and/or improved with some skill in the art of relating to others. Family Relations guides students to think critically about and deal with life situations such as maintaining a positive self-image, strengthening family relationships, dating, marriage, and managing one's life with insight. Another component focuses on careers relating to these topics and working with individuals and families. Other topics include crises such as divorce, drug/alcoholism, aging and death. Emphasis is placed on discussions and the sharing of ideas through cooperative learning activities.

CHILD DEVELOPMENT

Course: 117031/217031
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: \$10
Credit: Dual Credit. See [page 6](#).

Child Development is one of the most fascinating areas of study. Who can resist a smiling baby, a stumbling toddler, or a curious child? To gain insight into the world of these children, join the Child Development class to study the areas of planning for children, prenatal care, birth, and the emotional, social, physical, and intellectual development of the child from conception to age 12. College credit may be earned.



NTC Equivalent Course:
 ECE: Childhood Development #10-307-179 (3 credits)
 Department: Early Childhood Education

EARLY CHILDHOOD SERVICES

Course: 117051/217051
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: Child Development, or instructor approval; Junior or Senior
Fee: \$10
Credit: Dual Credit. See [page 6](#).

This course is designed for students with an interest in working with children. The course includes classroom instruction in personal and professional care for the developing child. An extended laboratory experience will allow students to practice techniques and concepts learned in the classroom. The skills developed in this course will be useful in teaching, child care, counseling and health related careers. State of Wisconsin certification as an Assistant Child Care Teacher is attainable. Students must be 17 upon completion of the course to obtain state certification. College credit may be earned.



NTC Equivalent Course:
 ECE: Foundations of Early Childhood #10-307-148 (3 credits)
 Department: Early Childhood Education

ASPIRING EDUCATORS AND INTERNSHIP (classroom and worksite)

Course: 117151/217151
WS: 117161/217161
Credit: 1.0/Year Classroom
Credit: 1.0/Year Work Experience/Internship
Offered: Year
Year Taken: 12
Prereq: None. Register for both classroom and work experience.
Fee: \$10
Credit: Dual Credit. See [page 6](#).

This 2-part course embraces partnership between education and business. It integrates school-based and work-based learning opportunities. In addition to earning high school credit for the course and the internship, students can also earn the Wisconsin School-to-Work Child Services Cooperative Skills Certification. The Aspiring Educators internship opportunity requires students to obtain work experience at an approved child care or elementary tutoring site. Through this workplace experience, students obtain real life work experiences where the classroom curriculum and instructional practices are utilized in community work sites. Mentoring and teacher assessment are integrated into the worksite experience. This course is ideal for those students interested in pursuing a career in education, counseling or child care.

Note: This course can be taken with or without the internship portion.



NTC Equivalent Course:
 ECE: Foundations of Teacher Education #10-307-148 (3 credits)
 Department: Early Childhood Education

HEALTH OCCUPATIONS I

Course: 117181
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: None
Fee: None

This course will provide students with an overview of the health care system and health careers. Students will learn about the job responsibilities, personal traits, attitudes, education and licensure of individuals working in the health career field. They will have the opportunity to job shadow health care professionals and will become acquainted with a variety of trends and issues in today's health care environment. Students will also develop a personal career plan by evaluating their personal characteristics and comparing those to traits and attitudes required for health care workers.

HEALTH OCCUPATIONS II

Course: 217181
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Health Occupations I
Fee: None

This course will provide students with specific knowledge of the health care system. Students will learn about the history and foundation of health care as well as examining trends and changes which have taken place. They will have the opportunity to study a variety of health care issues and discover various methods and treatments available to those in need of health care. Students will examine common practices utilized for patient safety and confidentiality. Leadership and positive interpersonal skills will be emphasized as students extend their knowledge of providing and practicing the necessary skills of a successful health care worker. Students will further examine concepts which will also encourage their overall health and wellness as they provide care for others.

MONEY MATTERS

Course: 217211
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: None
Fee: \$5

Teenagers are major money spenders. You are working hard to earn money, but why does it feel like you are always broke? Money Matters will help figure out how to keep some money in your pocket, yet still be able to buy what you need. This class will focus on the lifelong topics of career choice, budgeting, banking, credit cards, identity theft, consumerism, transportation, food comparisons, clothing, housing and insurance. You will learn best options to purchasing new or used vehicles, how to get credit, how to meet insurance needs, and do wise shopping. This course is for anyone who doesn't want his or her "hard earned money" taken advantage of.

Course meets Financial Literacy requirements as set forth by Wausau School District.

GLOBAL LANGUAGE

“The world in which our students will live and work is not an English-speaking world.”

~Gilles Bousquet, Chair, Dept. of Public Instruction’s
International Education Council

Did you know that studying a **global language** can **enhance your opportunities** in just about **any college or career**? Corporations in Wisconsin and across the United States conduct business in every corner of the globe. There is an ever-increasing chance that our students of today will compete for future jobs with students from all over the world. In addition, students in global language classes typically score higher on SAT and ACT exams as well as on standardized tests. Where better to foster global awareness and cultural understanding while potentially earning college credit than the global language classroom?

Advanced Placement – Retroactive Credit

College credit may be earned while studying a global language in high school. Many colleges and universities grant as many as 16 credits to students who have studied a high school global language. Schools will most likely require the student to successfully complete a placement examination and/or a follow-up course in the language at that college or university before the credits will be granted.

Global language students may, at their own expense and with teacher approval, participate in a high school program allowing them to travel to a country where the native language is spoken.

Course Titles	Offered	Year Taken	
French I	Year	9-12	
French II	Year	9-12	
French III	Year	10-12	
French IV	Year	11-12	
AP French	Year	12	
German I	Year	9-12	
German II	Year	9-12	
German III	Year	10-12	
German IV	Year	11-12	
AP German	Year	12	
Spanish I	Year	9-12	
Spanish II	Year	9-12	
Spanish III	Year	10-12	
Spanish IV	Year	11-12	
AP Spanish	Year	12	



For all things Global Language at Wausau West, like us on Facebook under Wausau West Global Language and follow @WWFLANG on Twitter!





Global Scholars Program

Wausau West, through the Wisconsin Department of Public Instruction, offers students the ability to earn The Certificate of Global Competence.

This certificate supports student literacy as defined by the Common Core Standards and provides a pathway for 21st Century Skills (<http://www.p21.org/overview/skills-framework/256>). Additionally, it prepares globally competent, career-ready students. Globally competent students investigate the world beyond their immediate environment, recognize their own and others' perspectives, communicate ideas effectively with diverse audiences in more than one language, and translate their ideas into appropriate actions to improve conditions (<https://dpi.wi.gov/international-education/achievement-certificate>).

The purpose is to:

Encourage students to recognize the value and emphasize the global aspects of their education. Serve as a significant selection criterion i.e.: an indicator of maturity and efforts to develop broadened perspective in the admissions process to colleges and universities.

Serve as an important hiring consideration i.e.: signaling maturity and preparation to work in a global marketplace by prospective employers.

Minimum Criteria:

Coursework	8 credits of coursework within the Common Core (English, Math, Science, Social Studies).
	4 credits of courses with the designated Global Emphasis (Courses with a Global Emphasis will be asterisked by a globe.)
	4 credits/years of a single Global Language.
Cultural Literacy	Reviews on at least 8 works of international/cultural media including at least 4 books. Films, music, books, or art must be pre-approved.
Co-Curricular	Participation or leadership in at least 4 co-curricular or school endorsed activities that demonstrate interest in global citizenship.
	Examples include: Travel abroad, host exchange students, direct engagement with non-native speakers, International Club, Language Immersion Programs, International Fairs, etc.
Community Service	20 hours of volunteer work connected to a global community service project or to a global issue.

All work/criteria must be documented by the student and verified.

Global Scholars candidates must complete an application. Applications can be obtained from a Global Language teacher.

FRENCH I

Course: 118001/218001
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: None
Fee: None

Through the situations of making friends, school, sports and hobbies, cafes, going out, family, grocery shopping, and the telephone, students will begin to develop the skills of listening, speaking, reading and writing French. In this year-long course, they will do skits, make crêpes, and play games using the Smartboard.

FRENCH II

Course: 118011/218011
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: French I and consent of the Instructor
Fee: None

French meals, asking and giving directions, planning a trip and recounting past experiences are themes through which second year students will continue to develop their language skills. They will participate in skits, discussion/dialogues, simulations, and other activities related to French speaking countries. The lab section of class will focus on developing their French ear. By using authentic online activities students will improve their listening, reading, writing and speaking skills.

FRENCH III

Course: 118021/218021
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: French II and consent of the Instructor
Fee: None

In French III, students will advance their language proficiency by listening to native French speaking people, small group discussions and student presentations. Units will include learning new vocabulary and important grammar concepts. Students will view and study 2-3 French films. The lab section of class will focus on developing their French ear. By using authentic online activities students will improve their listening, reading, writing and speaking skills.

FRENCH IV

Course: 118031/218031
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: French III and consent of the Instructor
Fee: None

In this level class students will study current events, film, art, music, French history, foods from various countries, and literature from various French authors. Students will view and study 2-3 French films. The lab section of class will focus on developing their French ear. By using authentic online activities students will improve their listening, reading, writing and speaking skills.

AP FRENCH**Course:** 118041/218041**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 12**Prereq:** French IV and/or consent of the Instructor**Fee:** None**Credit:** Dual Credit. See [page 6](#).

This advanced level class will prepare students to take the AP exam, and/or receive college credit from the University of Wisconsin Green Bay. This course will increase their proficiency in reading by reading short stories and poems, in listening by watching French films and practicing dictations; in speaking by doing skits and short presentations; and in writing by writing compositions and letters. The lab section of class will focus on developing their French ear. By using authentic online activities students will improve their listening, reading, writing and speaking skills.



UWGB Equivalent Class:

Intermediate French Language II #French 202 (3 credits)

Department: Modern Language Department

Note: Students are able to skip placement exam and students earning a B or better also earn 11 retroactive credits for a total of 14 credits on their UWGB transcript.

GERMAN I**Course:** 118071/218071**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 9-12**Prereq:** None**Fee:** None

“Mein Leben” is the theme of German 1. Students will learn to speak, read and write about “My Life” – home, family, likes/dislikes, free time and school. The student will also learn to speak, read and write basic German, including introductory grammar concepts. Students will speak the language in partner and small group work. Lab phase introduces authentic language usage through many online activities.

GERMAN II**Course:** 118081/218081**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 9-12**Prereq:** German I and consent of the Instructor**Fee:** None

A course which builds on level one, giving students the opportunity to improve their speaking, reading and writing skills. Reading selections are directed toward understanding life and culture. Lab phase allows for authentic language exposure through online activities, games, quizzes, recordings, websites, etc. Learning opportunities include making videos, watching movies and partner and small group work.

GERMAN III**Course:** 118091/218091**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 10-12**Prereq:** German II and consent of the Instructor**Fee:** None

German III is a course for students wishing to gain more fluency in German. Films, stories, skits and videos are used to develop language skills like speaking, writing, listening and reading. Lab phase continues to provide authentic language exposure.

GERMAN IV

Course: 118101/218101
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: German III and consent of the Instructor
Fee: None

German IV is a year-long course that places more emphasis on speaking, writing and culture than in earlier classes. It continues to build comprehension and reading skills, emphasizing greater depth as well as smoother expression in spoken and written work through grammatical review, reading various types of literature, and viewing short and feature-length films critically.

AP GERMAN

Course: 118111/218111
Credit: 1.0/Year
Offered: Year
Year Taken: 12
Prereq: German IV and/or consent of the Instructor
Fee: None

AP German is a year-long course that refines and expands grammar, structure and vocabulary through composition and conversation. Emphasis is placed on communication through writing and speaking, while building cultural and linguistic comprehension using authentic German text, audio, and video resources.

SPANISH I

Course: 118131/218131
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: None
Fee: None

This is a year-long course that helps students build proficiency in listening, speaking, reading, and writing Spanish. It presents the language in realistic cultural situations that are part of the Spanish speaking world through videos, games, listening exercises and speaking practice.

SPANISH II

Course: 118141/218141
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Spanish I and consent of the Instructor
Fee: None

This year-long course helps further develop skills in listening, speaking, reading and writing. Vocabulary and individual projects are stressed to give students a better background in the above four skill areas. The students gain a deeper appreciation of the various cultures of the Spanish speaking world. Lab phase allows for authentic language exposure through online activities, games, quizzes, recordings, etc.

SPANISH III

Course: 118151/218151
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Spanish II and consent of the Instructor
Fee: None

Spanish III is a year-long course that continues to strengthen the students' language ability in the four skill areas. Students are provided with opportunities where they can create with the language, participate in conversations, and communicate in basic survival situations. Highlights of the class include individual or group projects, cultural readings, oral presentations and other activities relevant to culture. Lab phase allows for authentic language exposure through online activities, games, quizzes, recordings, etc.

SPANISH IV**Course:** 118161/218161**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 11-12**Prereq:** Spanish III and consent of the Instructor**Fee:** None

Spanish IV is a year-long course that provides realistic experiences and situations that further strengthen the students' proficiency in the four skill areas. The students study vocabulary and grammar that is used in various cultural settings. Students are encouraged to communicate using more advanced language by speaking, listening, and writing on a daily basis. Lab phase activities include Internet research, recordings, audio and video activities, and grammar practice.

AP SPANISH**Course:** 118171/218171**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 12**Prereq:** Spanish IV and/or consent of the Instructor**Fee:** None

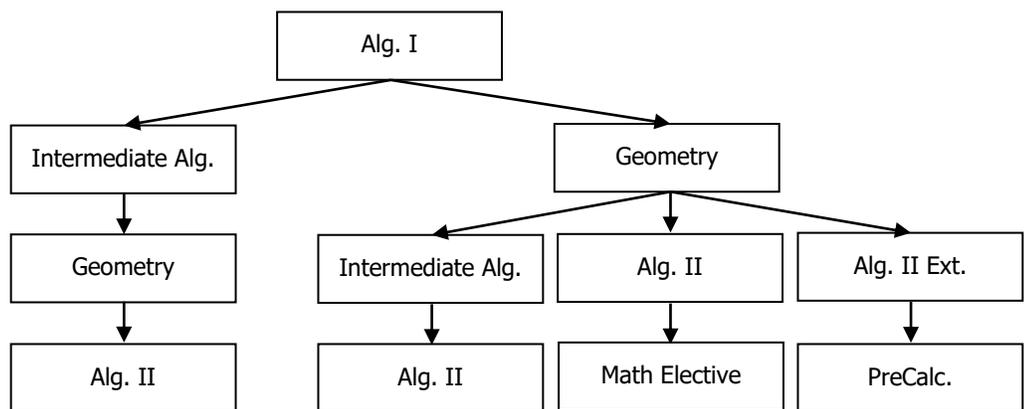
AP Spanish V is taught entirely in Spanish. This course builds upon the skills learned in Spanish III & IV. It provides students with additional opportunities to use the language through interpersonal and presentational speaking and writing. The students read and listen to authentic materials via the Internet and other sources. A large emphasis will be placed on preparation for the AP Spanish exam which is offered in the spring.

MATHEMATICS

The Mathematics curriculum provides students with the opportunity to achieve their maximum potential in understanding mathematics. An important goal is the development of students' problem solving ability with evidence of computational as well as conceptual understanding.

Course Title	Offered	Year Taken	
Pre-Algebra (TEACHER PLACEMENT ONLY)	Year	9-10	
Algebra I	Year	9-11	
Geometry	Year	9-12	
Intermediate Algebra	Year	10-12	
Algebra II	Year	10-12	
Algebra II Extended	Year	9-12	
Precalculus	Year	10-12	
Algebra III	Year	11-12	
Advanced Placement Calculus (AB)	Year	11-12	
Advanced Placement Statistics	Year	10-12	
Introduction to Statistics	Sem I or II	11-12	
CS - Introduction to Programming*	Semester I	9-12	
CS - Web Design*	Semester II	9-12	
CS - Physical Computing*	Semester I	10-12	
CS - AP Computer Science A*	Year	10-12	
CS Topics: Introduction to Cryptography*	Semester II	9-12	
Geometry Applications*	Year	9-12	

Students will work with teachers and parents/guardians during registration to select the most appropriate math course each year. Graduation now requires 3 math credits. Courses marked with an asterisk (*) are for elective credit only and do not currently fulfill any of the 3 required math credits for graduation. The following page outlines possible sequences of math courses offered at West. Students are not limited to these possibilities, but these are the most popular.



Note: Pre-Alg. students usually proceed to Alg.

Following Alg. II/Alg. II Ext., students have options:

- Alg. III ⇔ Usually students from Alg. II
- PreCalc. ⇔ Usually students from Alg. II Ext.
- AP Calc. ⇔ Follows PreCalc.
- AP Statistics ⇔ Can be taken as a stand-alone class or a class to double-up on. Common double-up options are with PreCalc. and AP Calc. Alg. III students may also take Stats.

PRE-ALGEBRA

Course: 119091/219091
Credit: 1.0/Year
Offered: Year
Year Taken: 9
Prereq: Students may not register themselves for this course. Teacher referral only.
Fee: None

Pre-Algebra is offered as a skill building class for students in order to prepare them for the Algebra I and the beginnings of the Common Core standards for high school mathematics. Topics include: integers, fractions, expressions, equations, inequalities, slope & graphing, exponents, systems, writing equations and 2D Geometry.

This class is not approved by the NCAA Eligibility Center.

ALGEBRA I

Course: 119041/219041
Credit: 1.0/Year
Offered: Year
Year Taken: 9-11
Prereq: None
Fee: \$3

Algebra I covers the first year of the mathematics curriculum defined by the Common Core standards. These standards include: relationships between quantities and reasoning with equations, linear and exponential relationships, expressions and equations, and quadratic functions and modeling.

GEOMETRY

Course: 119271/219271
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Alg. I
Fee: \$3

Geometry covers the second year of the mathematics curriculum defined by the Common Core standards. These standards include:

1. Congruence, proof, and construction
2. Similarity, proof, and trigonometry
3. 3D Geometry
4. Connection algebra and geometry through coordinates
5. Circles
6. Applications of probability

Materials needed in the class include a 1.5, 2, or 3 inch 3-ring binder and a scientific calculator.

INTERMEDIATE ALGEBRA

Course: 119111/219111
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Alg. I REQUIRED OR CONCURRENT ENROLLMENT
Fee: None

Intermediate Algebra is a bridge course between Algebra I and Geometry, or Geometry and Algebra II. Topics include linear, exponential, quadratic, polynomial, rational, and radical functions.

This class is not approved by the NCAA Eligibility Center.

ALGEBRA II

Course: 119061/219061
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Alg. I
Fee: \$3

Algebra II covers the third year of the mathematics curriculum defined by the Common Core standards. These standards include:

- Polynomial, rational, and radical relationships
- Function modeling
- Statistics
- Trigonometry functions (optional)

TI-Nspire graphing or the Desmos Online Graphing calculators will be utilized in this course.

ALGEBRA II EXTENDED

Course: 119071/219071
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Alg. I and Geometry
REQUIRED
Fee: \$3

Algebra II Extended is an advanced level course covering the third year of the mathematics curriculum defined by the Common Core standards. These standards include:

- Polynomial, rational, and radical Relationships
- Function modeling
- Statistics
- Trigonometry functions

TI-Nspire graphing calculators will be utilized in this course.

ALGEBRA III

Course: 119011/219011
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Alg. II (any level)
Fee: None
Credit: Dual Credit. See [page 6](#).

Algebra III is a course designed for students who would like to further strengthen their math skills before furthering their education in either the college or technical education setting. Topics included are: function analysis, sequences and series, exponential and logarithmic functions, data analysis, systems of equations, rational functions and conic sections.



NTC Equivalent Course:
 College Algebra w/Apps #10-804-195 (3 credits)
 Department: General Studies

PRECALCULUS

Course: 119241/219241
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Algebra II Extended or Algebra II
Fee: None
Credit: Dual Credit. See [page 6](#).

This is a year-long course designed for college bound students planning to take calculus. Topics included are: function analysis, trigonometric functions, analytical geometry, complex numbers, polar coordinates, parametric equations, vectors, exponential and logarithmic functions, data analysis, curve fitting, rational functions, limits, and rates of change. TI-Nspire graphing calculators will be utilized in this course.



NTC Equivalent Course:
 Trigonometry with Applications #10-804-196 (3 credits)
 Department: General Studies

ADVANCED PLACEMENT CALCULUS (AB)

Course: 119021/219021
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Pre-Calculus
Fee: None

AP Calculus (AB) is a year-long course in introductory calculus with elementary functions. Students will have the opportunity to take the AP exam at the end of the year for potential college credit. This course is intended for students who have a thorough knowledge of college preparatory mathematics, Algebra through Precalculus. In its simplest form, Calculus is the study of how “things” change. Practical examples of changes studied include: bacterial growth, stock market prices, profits/losses, snowfall, temperature, populations, insurance rates/claims, and fuel consumption, to name a few. Universities, the military, government agencies, airlines, engineering, software companies, and construction companies are

continued

only a few employers who seek individuals with a solid knowledge of calculus. Even doctors and lawyers use calculus to help build the discipline necessary for solving complex problems, such as diagnosing patients or planning a prosecution case. Despite its mystique as a more complex branch of mathematics, calculus touches our lives each day, in ways too numerous to calculate. A graphing calculator (TI-Nspire CAS) will be used throughout the course.

Note: Many colleges will grant up to six semester credits for successful completion (an AP score of “3” or higher) of the Advanced Placement Calculus test administered by the College Board in May each year.

ADVANCED PLACEMENT STATISTICS

Course: 119431/219431
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Geometry with current Alg. II Ext. enrollment or Alg. II
Fee: None

AP Statistics is a year-long course with the opportunity of earning college credit through the AP exam at the end of the year. Students will describe data graphically and numerically, explore the design of surveys and experiments, and develop the skills used in making sound statistical decisions. Statistics is used and required by many fields of study (not just for the mathematically elite). Some of these areas include: health related studies such as physicians, pharmacists or nurses, psychology and sociology; business and economics; biology and other sciences; engineering; actuarial science; agriculture and food science; general research; and many others. A graphing calculator (TI-Nspire CAS) will be used throughout the course.

Introduction to Statistics is not required to take AP Statistics.

Note: Many colleges will grant 3 credits for successful completion of the Advanced Placement Statistics test administered by the College Board in May each year (A score of 3 or better is considered passing at most universities).

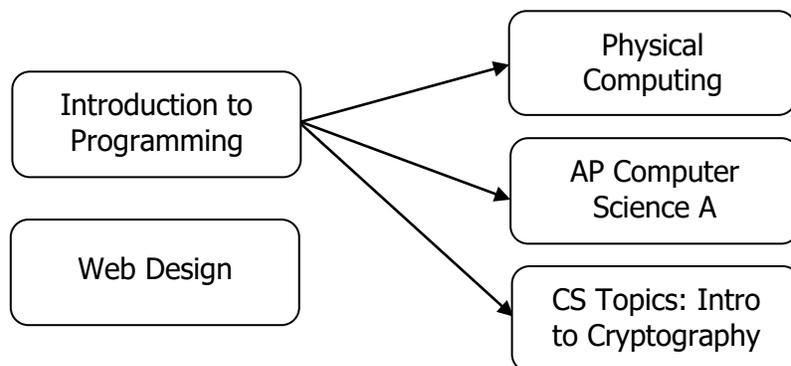
INTRODUCTION TO STATISTICS

Course: 119451/219451
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: Algebra I
Fee: None

Intro to Statistics is a semester-long course designed to explore basic practical applications of data analysis in real world situations. Students will learn how to identify good data from either surveys or experiments, how to organize that data both graphically and numerically and how statisticians make decisions with that data. Statistics is used in many fields of study including: Health (doctors, nurses, pharmacists, psychologists, etc.), Sociology, Business & Economics, Engineering, Food Science, Biology, general research and others. Exposure to the vocabulary and ideas of statistics can be helpful in understanding reports heard on the news or in preparation for post-secondary course work. The content in Intro to Statistics will be repeated during the second semester, so students should only sign up for one semester.

MATHEMATICS/COMPUTER SCIENCE ELECTIVES

*"Computers are incredibly fast, accurate, and stupid.
Human beings are incredibly slow, inaccurate, and brilliant.
Together they are powerful beyond imagination."
Leo Cherne, 1968*



*Indicates an elective credit that does not count toward Mathematics graduation requirements.

CS-INTRODUCTION TO PROGRAMMING*

Course: 119181
Credit: .5/Sem.
(*this is an elective credit)
Offered: Semester I
Year Taken: 9-12
Prereq: None
Fee: None

In this introductory course, students explore the structures and processes for developing solutions using computer code, and develop Computational Thinking skills that are highly valued in the modern workplace. Programming is a creative process that fosters ingenuity, perseverance and critical-thinking; it is all about thinking logically. Programming is everywhere and is for everyone. Today's computer scientists work with medical imaging, bioinformatics, mobile devices, digital imaging, music and movies, robots and automation, and thousands of other applications. Computer technology extends our human abilities to invent and innovate in virtually every field of study, and tremendous career opportunities exist for anyone who has specific skills and training in Computer Science.

Students will learn structured programming through writing applications using the Python programming language. Assignments range from writing simple games to designing useful scientific and business applications. The logical-deductive reasoning skills developed in this course serve as a solid foundation for later CS courses, and are valuable in any academic discipline.

Note: This course requires time outside of class to complete assignments and projects. Access to a home computer is highly recommended. Internet access is helpful but not required.

This class is not approved by the NCAA Eligibility Center.

CS-WEB DESIGN*

Course: 219191
Credit: .5/Sem.
*(*this is an elective credit)*
Offered: Semester II
Year Taken: 9-12
Prereq: None
Fee: \$25
Credit: Dual Credit. See [page 6](#).

This course introduces students to the techniques used to design, build and maintain a quality website. Students learn HTML (HyperText Markup Language), which provides the blueprint for creating correct structure and content of a web page, and CSS (Cascading Style Sheets), which applies the visual styling and layout features that make a web page functional, attractive and unique. Learning how to develop web pages requires an eye for detail, solid reading and reasoning skills, and a working knowledge of HTML and CSS. These key skills will enable students to construct websites for personal and professional use.

Note: This course requires time outside of class to complete assignments and projects. Access to a home computer is highly recommended. Internet access is helpful but not required.

This class is not approved by the NCAA Eligibility Center.



NTC Equivalent Course:
 Web Design 1 #10-152-211 (3 credits)
 Department: IT-Programming

CS-PHYSICAL COMPUTING*

Course: 119221
Credit: .5/Sem.
*(*this is an elective credit)*
Offered: Semester I
Year Taken: 10-12
Prereq: Intro to Programming (with a grade of C or better)
Fee: \$40

In this introductory course students will design and build simple machines using embedded Arduino microcontrollers. The Arduino is a small programmable computer used to make a machine functional by providing "intelligence" to sense inputs (such as a button pressed or a location reached), to make decisions based on the inputs, and to control the resulting action/output, using the intuitive Arduino programming language. Many commercial products and "smart" devices operate using microcontroller-based computing. Arduino projects also promote creative and artistic design, and are limited only by one's imagination. The magic happens when a project is integrated with a computer to drive the motors, lights and sensors that bring it to life. Students will learn through hands-on activities, self-paced tutorials and teacher-guided instruction, leading to a final course project that will showcase their new skills.

This class is not approved by the NCAA Eligibility Center.

CS-ADVANCED PLACEMENT COMPUTER SCIENCE A*

Course: 119211/219211
Credit: 1.0/Year
*(*this is an elective credit)*
Offered: Year
Year Taken: 10-12
Prereq: Intro to Programming (with a grade of C or better)
Fee: None

AP Computer Science A builds upon the foundations developed in the Introduction to Programming course. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. Students must plan for and set aside appropriate time needed for designing, writing, testing and de-bugging programs. A home computer is highly recommended.

continued

There is a large need in the U.S. to increase the number of CS and IT graduates in both 2 and 4-year programs to fill the growing demand for programmers and IT specialists. Data suggests that students who complete the AP Java course in high school enjoy far more success transitioning to college-level programming courses. Students will be eligible to take the AP Computer Science A exam in May.

This class is not approved by the NCAA Eligibility Center.

CS TOPICS: INTRODUCTION TO CRYPTOGRAPHY*

Course: 219231

Credit: .5/Sem.

(*this is an elective credit)

Offered: Semester II

Year Taken: 9-12

Prereq: Intro to

Programming (with a grade of C or better)

Fee: None

Cryptography is the science of using secret codes to maintain the privacy and security of information. Throughout history, anyone who has needed to share secrets with others has relied on cryptography to make sure their secrets stayed secret. In the modern digital age where information and data are widely transmitted across the internet, the need for robust data security has driven development of “impenetrable” encryption systems that form the first line of defense in cybersecurity. All computer-based commercial transactions rely on modern standard encryption methods, which have origins that precede the roman empire.

In this course you will explore the rich history of cryptography, the motivation behind using encryption systems, and basic cryptographic strategies. It opens a window to understand how age-old ciphers and algorithms gave rise to modern encryption. Before the use of computers, code-breaking was a breathtakingly complex task that resisted large scale success for thousands of years. The history of computing is closely tied to the development of tools for “cracking enemy codes” and the design of “unbreakable” encryption.

This course builds upon programming concepts from the Introduction to Programming course, and allows students to continue exploring the foundations of programming using cryptography as a unifying theme. At different times students will be provided complete code segments to study, will modify starter code to achieve desired results, and will write their own functions to “crack” some of the early traditional ciphers. Students taking this course will enjoy an engaging topic that expands their programming skill set and prepares them for future study in cybersecurity.

Note: This course requires time outside of class to complete assignments and projects. Access to a home computer is highly recommended. Internet access is helpful, but not required.

This class is not approved by the NCAA Eligibility Center.

GENERAL ELECTIVE**GEOMETRY APPLICATIONS*****Course:** 119481/219481**Credit:** .5/Year(**this is an elective credit*)**Offered:** Year**Year Taken:** 9-12**Prereq:** Concurrent enrollment in Geometry**Fee:** None

Geometry presents many abstract math concepts that can be difficult to grasp in a theoretical sense. Geometry Applications is a class taken concurrently with Geometry in which students will participate in hands-on rigorous and relevant applications to these theoretical concepts. Geometry Applications utilizes the resources of the Technology and Engineering Education (TEE) department staff and facilities in conjunction with classroom Geometry teachers, and the course content directly relates to the traditional Geometry math class. All Geometry students would receive the same instruction during Geometry class, however, students that have enrolled in Geometry Applications would have an opportunity to gain additional practical applications through project-based instruction. The class is offered as a .25 elective credit per semester and meets one hour per week with projects to complete outside of the classroom.

Note: It is strongly recommended that students enroll in a maximum of two electives in addition to Geometry Applications due to the time requirements of the class.

This class is not approved by the NCAA Eligibility Center.

This course is also listed on [page 125](#) of the handbook.

MUSIC

Wausau West High School offers a variety of courses in the field of music. The choirs, bands, and orchestras maintain an active performance schedule and are recognized throughout the state for their excellence.

Why Choose Music? Recent research has once again found a strong correlation between music and brain development. Studies prove that listening and participation in music have a powerful and positive influence on the brain and enhance learning levels.

The Wausau West Music Department holds the following beliefs:

- We believe the study of music develops life skills.
- We believe the study of music is a vital part of every student's education.
- We believe music positively influences other disciplines and professions.
- We believe a quality music program has a positive impact on school climate and community life.

MORE INFORMATION: www.wsmamusic.com or www.menc.org

Course Title	Offered	Year Taken	
Freshman Choir	Year	9	
Men's Choir	Year	10-12	
Women's Choir	Year	10-12	
Concert Chorale	Year	11-12	
Concert Band	Year	9-12	
Wind Ensemble	Year	10-12	
Orchestra	Year	9-12	

FRESHMAN CHOIR

Tenor/Bass Course:
120015/220015
Soprano/Alto Course:
120017/220017
Credit: 1.0/Year
Offered: Year
Year Taken: 9
Prereq: None
Fee: None

A year-long course that includes in its study: choral techniques, part reading, diction, and extending knowledge of choral literature. The choir participates in several concerts during the school year. Performances and concerts are considered an extension of the classroom; therefore, attendance at all performances is required.

UPPER CLASSMEN'S VOCAL MUSIC (grades 10, 11 & 12)**Course:** 120051/220051

Vocal Music is available to students interested in a performing choral group. All students who are interested in the program are to register for VOCAL MUSIC. Performances and concerts are considered an extension of the classroom; therefore, attendance at all performances is required. Following registration, audition schedules are arranged. After the audition, the students will be placed in one of the three choirs listed below.

MEN'S CHOIR**Course:** 120021/220021**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 10-12**Prereq:** Must meet minimum singing standards as determined by the Director**Fee:** None

A year-long course designed to give students in the tenor or baritone range, with limited choral experience, the opportunity for training in ensemble work, choral techniques and the study of choral literature. The chorus participates in several concerts during the school year. Performances and concerts are considered an extension of the classroom; therefore, attendance at all performances is required.

WOMEN'S CHOIR**Course:** 120041/220041**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 10-12**Prereq:** Must meet minimum singing standards as determined by the Director**Fee:** None

A year-long course designed to give students in the soprano or alto range, with limited choral experience, the opportunity for training in ensemble work, choral techniques and the study of choral literature. The chorus participates in several concerts during the school year. Performances and concerts are considered an extension of the classroom; therefore, attendance at all performances is required.

CONCERT CHORALE**Course:** 120001/220001**Credit:** 1.0/Year**Offered:** Year**Year Taken:** 11-12**Prereq:** Must meet minimum singing standards as determined by the Director**Fee:** None

A performance group of selected vocal students. The members of Concert Chorale are selected on the basis of individual audition. The choir makes numerous appearances in the Wausau area each year and the opportunity is provided for participation in Solo and Ensemble Festivals. Performances and concerts are considered an extension of the classroom; therefore, attendance at all performances is required.



CONCERT BAND

Course: 120081/220081
 Also sign up for Instrument Section
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Minimal musical standards as determined by the Instructor
Fee: Band Fee: \$35/Year
 Optional school instrument rental: \$30/Year

A year-long course open to grades 9-12 with placement being determined by the individual's musical ability and advisement of the instructor. Performances are viewed as an extension of the classroom; therefore, attendance at all performances is required. Opportunities for participation in Solo and Ensemble Festivals are available and encouraged.

WIND ENSEMBLE

Course: 120091/220091
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12 with Instructor Approval
Prereq: Instructor Placement
Fee: Band Fee: \$35/Year
 Optional school instrument rental: \$30/Year

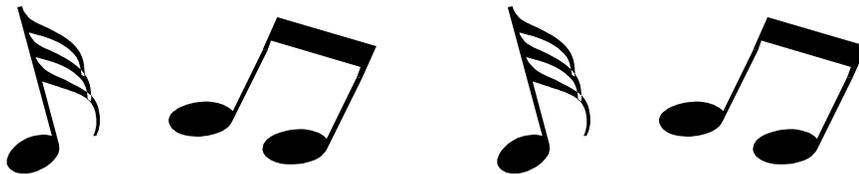
Wind Ensemble is a year-long course for advanced instrumental musicians focusing on performance of a variety of musical styles. Wind Ensemble members are selected by audition in the spring semester. Performances are viewed as an extension of the classroom; therefore, attendance at all performances is required.

Students should initially enroll in Concert Band.

ORCHESTRA

Course: 120061/220061
 Also sign up for instrument section
Credit: 1.0/Year
Offered: Year
Year Taken: 9-12
Prereq: Minimum musical standards as determined by the Director
Fee: \$10.00/Year

A year-long course, open to students in grades 9-12, which is performance oriented. Students perform a variety of music styles at several concerts. Performances and concerts are considered an extension of the classroom; therefore, attendance at all performances is required. Opportunities for participation in Solo and Ensemble Festivals are available and encouraged.



PHYSICAL EDUCATION

Physical Education is an integral part of total education. Every student is given the opportunity to develop and maintain good physical and mental health and to experience activities which are stimulating, gratifying and carry into everyday life.

Course Title	Offered	Year Taken	Course Status
Physical Education 9	Year	9	REQUIRED
Physical Education 10 Fit For Life	Semester I or II	10	REQUIRED
Health	Semester I or II	10	ONE OF THESE REQUIRED
Health Core	Semester II	10	
Adventure Based Activities	Semester I or II	11-12	ELECTIVE
Aerobics/Social Dance	Semester II	11-12	ELECTIVE
Bowling/Golf	Semester II	11-12	ELECTIVE
Fitness Fundamentals	Semester I or II	11-12	ELECTIVE
Invasion Games	Semester I or II	11-12	ELECTIVE
Invasion Games – Early Bird	Semester I	11-12	ELECTIVE
Leadership Training	Semester I or II	11-12	ELECTIVE
Net Games	Semester I or II	11-12	ELECTIVE
Outdoor Education	Semester II	11-12	ELECTIVE
Relaxation Techniques	Semester I or II	11-12	ELECTIVE
Personal Wellness	Semester I	11-12	ELECTIVE
Self Defense	Semester II	11-12	ELECTIVE
Student Instructor Seminar (pre sign-up, consent form needed)	Semester I or II	11-12	ELECTIVE
Weight Training	Semester I or II	11-12	ELECTIVE
Young Adult Medicine	Semester I	11-12	ELECTIVE
Specially Designed P.E. (See Special Ed Section)	Year	9-12	REFERRAL BY INSTRUCTOR



9th & 10th GRADE PHYSICAL EDUCATION OFFERINGS

PHYSICAL EDUCATION 9

Course: 134011/234011
Credit: .5/Year
Offered: Year
Year Taken: 9
Prereq: Freshman
Fee: None

The Freshman physical education course is a year-long offering. It provides an opportunity for the development of fundamental skills in a wide range of areas. Exposure to a variety of activities is one of our underlying objectives. The components of fitness, (cardiovascular endurance, muscular strength, muscular endurance and flexibility) will be promoted and evaluated. Students will be placed in Sophomore P.E. according to their fitness tests score. P.E. 9 is designed to promote a positive attitude toward health/physical education.

PHYSICAL EDUCATION 10 FIT FOR LIFE

Course: 134031/234031
Credit: .25/Sem.
Offered: Semester I or II
Year Taken: 10
Prereq: Sophomore
Fee: None

This 1st or 2nd semester course is designed to help students increase their level of fitness. Students will be placed into this class based on their last name, A-L or M-Z. Activities will stem from the major components of fitness. These include body composition, cardiovascular endurance, muscular strength, muscular endurance and flexibility. Students will have the opportunity to develop individual goals and participate in a number of activities to help attain a healthy lifestyle.

HEALTH

Course: 134001/234001
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10
Prereq: Sophomore
Fee: \$3

This course is required for all sophomores and is designed to help students understand how the choices they make now and in the future will impact their overall health and wellness. The topics covered in this course are healthy eating, personal health and wellness, mental and emotional health, alcohol, tobacco and other drugs, as well as human growth and development. Students will be placed into this class based on their last names, A-L or M-Z.

HEALTH CORE

Course: 234261
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10
Prereq: Teacher or Counselor approval
Fee: \$3

This course is required for all sophomores and is designed to help students understand how the choices they make now and in the future will impact their overall health and wellness. The topics covered in this course are healthy eating, personal health and wellness, mental and emotional health, alcohol, tobacco and other drugs, as well as human growth and development. This course will focus on topics at the basic level.

ELECTIVE PHYSICAL EDUCATION CLASSES

ADVENTURE BASED ACTIVITIES

Course: 134061/234061
Credit: .25/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to include a number of activities that emphasize group development skills such as problem-solving, initiatives and trust activities. This course promotes the social skills of communication, cooperation, and leadership development within the class. It will also include numerous low and high ropes course elements and wall climbing. The outdoor course includes: Zip line, Pamper jump, Climbing Tower, Dangle Duo, Multi-vine traverse and Cable traverse. Students on the ropes course will be encouraged to take healthy risks within their comfort zone. There are certain inherent risks and dangers associated with the event; students knowingly and voluntarily accept and assume responsibility for these risks and dangers, and dangers that could arise out of, or occurring during, student participation in the event.

AEROBICS/SOCIAL DANCE

Course: 234071
Credit: .25/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: None
Fee: None

This is a Co-Ed class offered to those who like to move to many styles of music. The social dance component will include a variety of individual, partner, and group dances. Some examples include Latin Dances (salsa, merengue, tango, cha cha, and mambo) swing, line dancing, waltz, and others. Students will also become familiar with proper dance etiquette on and off the dance floor. The other component included in this course is Aerobic Dance. This will include High and Low Intensity Aerobics, Step Aerobics, Cardio-Kick Boxing, circuit and stability ball training, HIIT Workouts, and an introduction to Zumba.

BOWLING/GOLF

Course: 234081
Credit: .25/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: None
Fee: \$38 per semester

This course will teach the students the fundamentals of golf and bowling. Students will spend third quarter bowling and the fourth quarter working on the game of golf. At the end of the golf unit, students are given the opportunity to play a round of golf at a local golf course. Students will be given the opportunity to bowl at a local bowling center most days. Students are required to pay fees for bowling and golfing.

FITNESS FUNDAMENTALS - VIRTUAL

Fitness Fundamentals I

Course: 134311

Credit: .5/Sem.

Offered: Semester I

Fitness Fundamentals II

Course: 234321

Credit: .5/Sem.

Year Taken: 11-12

Prereq: None

Fee: None

This course is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre- and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. In this course, students research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout this course, students participate in weekly fitness programs involving elements of cardio, strength, and flexibility.

Note: the course content for this class is completely online. You will be expected to schedule a one mod weekly face-to-face consultation meeting with the instructor. Additional mods may be scheduled as needed.

This course is also listed on [page 126](#) of the handbook.

INVASION GAMES

Course: 134211/234211

Credit: .25/Sem.

Offered: Semester I or II

Year Taken: 11-12

Prereq: None

Fee: None

Invasion Games – Early Bird

Tuesday/Thursday

6:45 am – 7:30 am

Course: 134251

Credit: .25/Sem.

Offered: Semester I

Year Taken: 11-12

Prereq: None

Fee: None

Invasion games are team games in which the purpose is to invade the opponent's territory while scoring points and keeping the opposing team's points to a minimum, and all within a certain time period. These include games where the ball is being carried or caught across a line, thrown or shot into a target, or struck with a stick or foot into a specific target area. Invasion games are the most strategic types of games with many transferable skills. Some activities may include but are not limited to Team Handball, Soccer, Speedball, Flag Football, Quad Ball, Satryn Ball, and Basketball.

LEADERSHIP TRAINING

Course: 134101/234101

Credit: .25/Sem.

Offered: Semester I or II

Year Taken: 11-12

Prereq: None

Fee: None

This course is designed to have two parts. The first phase is the classroom portion. The students will learn about and initiate leadership skills by participating in many activities that build and enhance leadership skills. The second portion will involve the student assuming a leadership role within the school or out in the community. Students will be required to put in a designated amount of hours in their choice of leadership activities. One option would be for the high school student to be a student leader at the Wausau School Forest for the 5th or 6th grade program. (No sign-up ahead of time, must have West P.E. approval). Other options for the students to obtain their hours include working with the Badger State Games, Special Olympics, tutoring groups, after school day care, after school youth activities and various volunteer options.

NET GAMES

Course: 134121/234121
Credit: .25/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course is a combination of various leisure time activities that include a net. Some activities may include but are not limited to tennis, badminton, eclipse ball, pickleball, takraw, floor hockey and volleyball. Fitness, hand-eye coordination, speed, agility and improving one's reaction are a few of the benefits that can be gained through participation in these activities.

OUTDOOR EDUCATION

Course: 234111
Credit: .25/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to expose students to a variety of outdoor skills. Students will participate in an Archery unit designed to examine the areas of equipment, terminology, shooting techniques, and safety. Other units may include, but are not limited to, hiking, knots, orienteering, snowshoeing, cross country skiing, fly fishing, ice fishing, mountain biking, disc golf and rock climbing.

RELAXATION TECHNIQUES

Course: 134141/234141
Credit: .25/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to slow you down in this fast paced society. We will focus on stress management and breathing techniques used for relaxation. Some specific areas of focus include: communication skills, time management, goal-setting, exercise, nutrition, and yoga. Students will be able to identify personal stress patterns and help alter the negative aspect of these patterns. This class teaches you how to take time for yourself which is a critical part of a healthy lifestyle.

PERSONAL WELLNESS

Course: 134131
Credit: .25/Sem.
Offered: Semester I
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to give students the opportunity to put into action the comprehensive health and wellness concepts they have learned throughout the physical education/health curriculum. Students in this class will:

- Develop a more defined self awareness. They will become more aware of their physical, spiritual, emotional, social, intellectual, and occupational selves. They will develop a better understanding of their strengths and weaknesses, limitations and capabilities.
- Learn how different aspects of the self are interrelated.
- Have a sense of balance. Students will determine how much time they should devote to themselves and others. Of the time students devote to themselves, students will determine how much time they should devote to different aspects of their lives. Finding balance may mean devoting unequal amounts of time to different areas of their lives.
- Understand how their choices affect themselves and others.
- Know ways to handle problems they encounter in life.
- Be aware of school resources that can help them develop a self awareness, understand how aspects of themselves are interrelated, achieve balance, make choices and handle decisions in their lives.

SELF-DEFENSE

Course: 234151
Credit: .25/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed for the student wanting to learn basic self-defense techniques. Basic falling and landing techniques and self-defense moves are covered. The course will also help teach body control and build the student's confidence in coordination of body movements. This course will also incorporate basic wrestling techniques and introduction to the various martial arts.

STUDENT INSTRUCTOR SEMINAR

Course: 134181/234181
Credit: .25/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: Junior or Senior and P.E. Staff written approval
Fee: None

The student instructor course is the most advanced course in which students can participate. Students with good technique and knowledge will assist teachers in the instruction of other students. Student instructors will aid in giving individual attention needed by many students. Student instructors will also assist teachers in some daily procedures such as equipment set-up/take down, equipment maintenance, locker room supervision and help prepare classroom materials. **Students must have P.E. Staff written approval prior to enrolling in this class.**

WEIGHT TRAINING

Course: 134161/234161
Credit: .25/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

This course is designed to enhance student knowledge and experience in the realm of strength training. The objective of this course is to provide students with the basic concepts of training and the ability to create, problem solve and modify their own programs.

The first quarter in each semester will focus on learning common exercises as well as the different types of training goals. In addition, students will learn how to begin the process of developing a program. The second quarter in each semester will be devoted to the student creating their own programs and performing them with specific goals in mind along with tracking their own progress.

Students will learn how to record/journal progress as well as how to modify a program to change fitness goals. Lecture sessions will be devoted to the topics of exercise selection/modification, program fundamentals and types, modifying nutrition for specific goals, injury prevention and improving body composition.

YOUNG ADULT MEDICINE

Course: 134221
Credit: .25/Sem.
Offered: Semester I
Year Taken: 11-12
Prereq: Ability to give presentation to the class
Fee: \$5

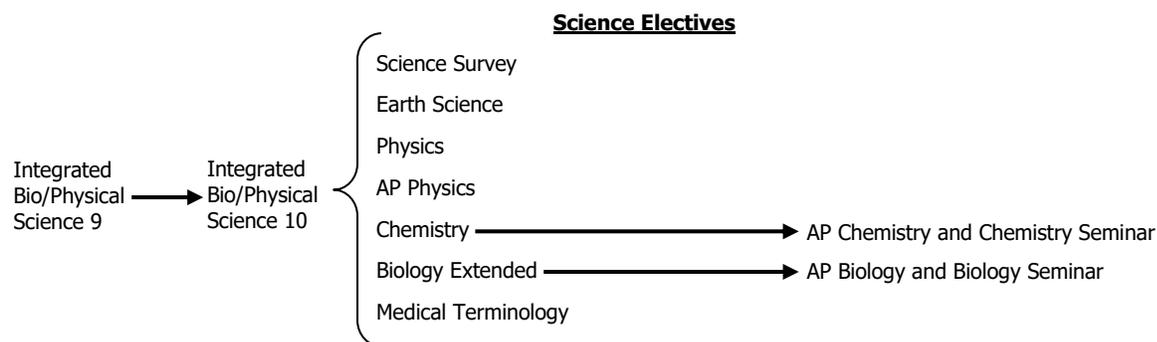
This course is divided into two units. The first unit covers CPR/First Aid/AED following the American Red Cross guidelines. The second unit presents a series of health related lectures by local physicians and medical professionals. Students become familiar with what constitutes good health and the delivery of health care. Possible areas to be included: pediatrics, family practice, orthopedics, pathology, O.B., dermatology, radiology and hospital experience. We may also take some field trips to medical/educational facilities.

SCIENCE

The development of our society is intimately related to science. Society's need to expand in complex ways has increased its dependence on science and technology. All students should receive an education in science to ensure they can make the most of their lives and opportunities. The goal of science education should be to develop scientifically literate citizens with the necessary intellectual resources, attitudes, and inquiry skills to promote the development of society.

Course Title	Offered	Year Taken	
Integrated Biological/Physical Science 9	Year	9	
Integrated Biological/Physical Science 9/10	Year	9	
Integrated Biological/Physical Science 10	Year	10	
Science Survey	Year	11-12	
Earth Science	Year or Semester	11-12	
Medical Terminology	Semester	11-12	
Physics	Year	11-12	
Advanced Placement Physics	Year	11-12	
Chemistry	Year	11-12	
Advanced Placement Chemistry and Chemistry Seminar	Year	11-12	
Biology Extended	Year or Semester	11-12	
Advanced Placement Biology and Biology Seminar	Year	11-12	

A student's educational experience in science begins with Integrated Biological/Physical Science in 9th and 10th grade. Integrated Biological/Physical Science is a combination of Introductory Biology, Chemistry, Physics, Earth Science and Environmental Science. The course of study revolves around a theme that provides continuity and is aimed at developing students as scientifically literate members of society. This two-year sequence is designed to satisfy the Wisconsin Academic Standards for Science and to prepare students for additional study through lab and non-lab science courses listed below.



The Wausau School District requires 3 years (6 semesters) of science to graduate. It is recommended by colleges that a minimum of two credits come from lab based courses that are above.

Non-Lab Courses from the Agriscience, Technology and Engineering Education, Science, and Family and Consumer Science Departments may help meet WSD high school graduation requirements. See course descriptions for more details.

- Principles of Engineering (Technology and Engineering Education Dept.)
- Vet Science (Agriscience Dept.)
- Horticulture/Greenhouse (Agriscience Dept.)
- Adv. Conservation (Agriscience Dept.)
- Food Science (Family and Consumer Science Dept.)

INTEGRATED BIOLOGICAL/PHYSICAL SCIENCE 9

Course: 122241/222241
Credit: 1.0/Year
Offered: Year
Year Taken: 9
Prereq: None
Lab Fee: \$5/Sem.

This is a one-year course required for Freshmen. It is an integrated science approach to developing basic skills, knowledge and appreciation of science. The themes studied involve the natural phenomena that affect an individual on a day-to-day basis. The majority of instruction is laboratory based and includes investigations from all five basic disciplines of science (biology, chemistry, earth science, environmental science and physics). Scientific skills, problem solving and critical thinking skills are highly emphasized. This course builds a strong foundation for students as they prepare to move through upper level science classes in the future.

INTEGRATED BIOLOGICAL/PHYSICAL SCIENCE 9/10 EXTENDED

Course: 122381/222381
Credit: 1.0/Year
Offered: Year
Year Taken: 9
Prereq: See Note
Lab Fee: \$5/Sem.

This is an accelerated science course open to Freshmen. The curriculum compresses topics from two courses; Integrated Biological/Physical Science 9 and Integrated Biological/Physical Science 10. This course is designed for the student who has advanced knowledge and skills in science. Successful students learn rapidly, understand science concepts readily, have well-developed study skills, have a strong desire to take at least one science class per semester at Wausau West and are interested in a career in a science field.

Note: 1) Completion of John Muir's accelerated Science 8 course with strong teacher recommendation **or 2)** for non-John Muir students, the admission procedure involves an alternate screening process (please contact the Science Department Leader at Wausau West High School).

INTEGRATED BIOLOGICAL/PHYSICAL SCIENCE 10

Course: 122261/222261
Credit: 1.0/Year
Offered: Year
Year Taken: 10
Prereq: Integrated Biological/Physical 9
Lab Fee: \$5/Sem.

This is a one-year course required for sophomores. It is an integrated science approach to developing advanced skills, critical thinking knowledge and appreciation of science. The theme is directed toward those concerns that our culture must face at the present time and in the future. The majority of instruction is laboratory based and includes investigations from all five basic disciplines of science (biology, chemistry, earth science, environmental science and physics). The nature of the scientific endeavor and the relationship of science and technology to society are emphasized.

PHYSICS

Course: 122211/222211
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12, or 10
 with consent of Science 9/10
 instructor
Prereq: Completion of
 Algebra I, Geometry,
 Integrated Biological/Physical
 Sciences 9 & 10 or 9/10
Lab Fee: \$5/Sem.

Physics is a one-year course that explains topics such as motion, forces, energy, electric circuits, rotation, gravitation, waves, and sound. This course involves hands-on labs and problem-solving activities. Once you can understand the world around us (the motion in playing sports, the forces in a car crash, or the electricity running through your house) everyday happenings make sense.

ADVANCED PLACEMENT (AP) PHYSICS

Course: 122391/222391
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12, or 10
 with consent of Science 9/10
 instructor
Prereq: Completion of
 Algebra I, Geometry,
 Integrated Biological/Physical
 Sciences 9 & 10 or 9/10.
 Current enrollment in Algebra
 II
Lab Fee: \$5/Sem.

AP Physics I is a college level algebra and trigonometry based introduction to physics. We will study topics including motion, forces, energy, momentum, waves, rotation, and circuits. The course includes many hands-on experiments and problem-solving activities as well as several projects. Students will be well prepared to take the AP Physics I exam in May, which may result in college credit.

EARTH SCIENCE

Course: 122151/222151
Credit: .5/Sem. or 1.0/Year
Offered: Sem. or Year
Year Taken: 11-12
Prereq: Completion of
 Integrated Biological/Physical
 Sciences 9 & 10 or 9/10
Lab Fee: \$5/Sem.

Students may enroll for either semester or both semesters.

In first semester we will look at the awesome universe as we study astronomy and meteorology. Topics include galaxies, stars and planets; the earth, moon and sun; the earth's atmosphere; storms (tornadoes and hurricanes); weather maps and weather predictions. During the astronomy unit there will be one class meeting a week in the Planetarium. Optional night time telescope viewing may be available.

Second semester topics include creative and explosive relationships between the Earth's interior and exterior. Discover the importance of geography and geology in everyday life as we study the following areas: geographical information systems (GIS) on computers, geographic position system (GPS), rocks and minerals and mining, the effect of plate tectonics including earthquakes, tsunamis, volcanoes, mountains and ocean floor features such as trenches and ridges.

SCIENCE SURVEY

Course: 122291/222291
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Junior standing
Lab Fee: \$5/Sem.

This lab science course is intended for juniors and seniors who seek additional opportunities in the four science disciplines of physics, chemistry, earth science, and biology through 4 to 6 week units. This problem solving, critical thinking course will help students prepare for additional advanced studies in science at Wausau West and will assist students to better understand the world. Juniors will also practice ACT science test skills and seniors will design and create a science project.

This class is not approved by the NCAA Eligibility Center.

CHEMISTRY

Course: 122091/222091
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12, or 10 with consent of Science 9/10 instructor
Prereq: Completion of Algebra I and Integrated Biological/Physical Sciences 9 & 10 or 9/10
Lab Fee: \$5/Sem.

Chemistry is taught with the purpose of making the next level of chemistry easier. We cover most of the topics covered in a first year college chemistry class. **Who should take chemistry?** Anyone wanting to pursue a career in any part of a medical field (nurse, doctor, dental hygienist, dentist, pharmacist, phlebotomist, veterinarian, lab technician), engineering, CSI, fire investigation, brewing, and a whole bunch of other careers. Yes, we blow up a few things as well.

ADVANCED PLACEMENT (AP) CHEMISTRY AND CHEMISTRY SEMINAR

AP Chemistry

Course: 122131/222131
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Completion of Chemistry (with an A or B grade highly recommended)
Lab Fee: \$5/Sem.

After successful completion of regular chemistry, you are invited and encouraged to enroll in AP Chemistry / Chemistry Seminar. This 2nd year is designed to give you the equivalent of a freshman college chemistry course. In the spring, students will have the option of taking the College Board AP Chemistry test. Colleges may grant semester credit for successful completion of the test. There are two course components to the class. AP Chemistry and Chemistry Seminar, which will feature the laboratory experience similar to a first year college chemistry program.

You will automatically be enrolled into:

Chemistry Seminar

Course: 122141/222141
Credit: .25/Year
Offered: Year
Year Taken: 11-12

Create a flammable gas with electricity, predict which reactions are spontaneous, determine the shape of molecules, do titrations with strong acids, and predict products of chemical reactions. Once you have taken regular chemistry, more details of the world of matter and energy will be opened up for your enjoyment. Enroll in AP Chemistry to explore the underlying principles and structure of what makes up our world.

Students not interested in a science career can benefit from this course by earning college credit towards science electives. This allows students time to focus on their major. Students who enjoy the first year of chemistry may want to take this AP course to open doors to a potential lucrative career in science.

BIOLOGY EXTENDED

Course: 122011/222011
Credit: .5/Sem. or 1.0/Year
Offered: Sem. or Year
Year Taken: 11-12, or 10
 with consent of Science 9/10
 instructor
Prereq: Completion of
 Integrated Biological/Physical
 Science 9 & 10 or 9/10
Lab Fee: \$5/Sem.

Biology is an upper level science course that provides college preparatory experiences.

First semester topics include the exciting world of plants, genetics, and the animal kingdom. The **Plant, Cells, Ecology & Skills Unit** discusses the importance of plants to ALL living organisms. Labs are conducted demonstrating how plants are essential to humans medically, nutritionally, and economically. The fascinating **Genetics Unit** includes understanding how each person receives traits from their parents, DNA, and genetic diseases and disorders. The genetics unit also investigates how genes are studied within populations, using the Hardy-Weinberg principle. The **Animal Unit** covers both invertebrates and vertebrates. Students will also dissect animals in lab with lab partners. Awareness, appreciation and connections are made between Wisconsin's plants and animals during semester one.

Second semester explores the fascinating world of **Human Body Systems** and animal behavior. The Human Body Units investigate organs and tissues of the various systems and how they function (anatomy and physiology). Systems studied include: skeletal, muscular, digestive, excretory, circulatory, respiratory, nervous, and endocrine systems. Students will also dissect animals in lab with lab partners. The **Animal Behavior Unit** studies why animals act the way they do and interactions within various animal populations. Some of the high points of second semester include looking at real human skeletons, investigating a crime scene, and performing several experiments with living animals (which will be treated humanely and ethically).

ADVANCED PLACEMENT (AP) BIOLOGY AND BIOLOGY SEMINAR

AP Biology
Course: 122051/222051
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Completion of 1 full
 year of Biology Extended
Lab Fee: \$5/Sem.

You will automatically be
 enrolled into:

Biology Seminar
Course: 122081/222081
Credit: .25/Year
Offered: Year
Year Taken: 11-12

After successful completion of Biology Extended you are able to enroll in AP Biology/Biology Seminar. AP Biology is a course that will foster several Science Practices: Concept Explanation, Visual Representations, Questions and Methods, Representing and Describing Data, Statistical Tests and Data Analysis, and Argumentation.

AP Biology has 4 unifying Big Ideas that will be explored in 8 main units. The units of study include:

Unit 1: Chemistry of Life
 Unit 2: Cell Structure and Function
 Unit 3: Cellular Energetics
 Unit 4: Cell Communication and Cell Cycle
 Unit 5: Heredity
 Unit 6: Gene Expression and Regulation
 Unit 7: Natural Selection
 Unit 8: Ecology

AP Biology and Biology Seminar will be comprised of laboratory experiences similar to a first year college biology program. Students will have to design and perform their own experiments.

Students taking AP Biology/Biology Seminar will have the option of taking the AP National Exam. Students are not required to take the National Exam in the Spring. Students may take the course simply to become more career and college ready.

MEDICAL TERMINOLOGY

Course: 122361/222361

Credit: .5/Sem.

Offered: Semester I or II

Year Taken: 11-12

Prereq: Junior or Senior. 2nd semester Biology Extended highly recommended.

Lab Fee: \$5/Sem.

Textbook/Workbook Fee:

Students will be required to purchase their own textbook and have it by the first day of class. Information about the book and where to purchase it will be emailed to students after registration.

Credit: Dual Credit. See

[page 6](#).

Understanding medical terminology is vital for entry in a wide range of professions including those entering the medical coding or billing fields; those seeking careers in the hospital, insurance companies or government agencies; biotechnology research; or those in the legal profession. If you are interested in pursuing a health and science career requiring the ability to communicate with physicians, dentists, or other medical professionals, this class will provide the necessary skills.

You will learn and recognize word roots, prefixes, and suffixes used in medical language today. Combine words to create meaningful medical conditions as well as comprehend their definition. This course will cover medical terms related to all major body systems such as: muscular, circulatory, skeletal, respiratory, digestive, reproductive, endocrine and the urinary system. Vocabulary comes alive through animations, lectures, computer work, speakers, and labs using real organs and dissections.

Note: This is a Dual Credit course. Students who successfully complete this course with a 75% or better will be eligible for three (3) transcripted credits through NTC. You will also receive .5 Science elective credit.



NTC Equivalent Course:

Medical Terminology #10-501-101 (3 credits)

Department: Health

SOCIAL STUDIES

Because the primary purpose of public education is to prepare students to participate in a democratic society, the West Social Studies program focuses on student success in communication, higher order thinking skills, and decision making as well as on the development of civic responsibility and an awareness of cultural diversity. Knowing that students learn and achieve success in a variety of ways and at different times, courses are designed with several phases of instruction and use a variety of assessments. Emphasis is placed on regular student participation in lab activities and on active involvement of all students in frequent small group discussions.

Course Title	Offered	Year Taken	
U.S. History I	Year	9	
U.S. History II	Year	10	
AP U.S. History II	Year	10	
Economics	Semester I or II	10-12	
Economics-Virtual	Semester I or II	10-12	
Government	Semester I	10-12	
World History	Year	11	
Sociology	Semester I or II	11-12	
Psychology	Semester I or II	11-12	
AP Psychology	Year	11-12	
AP Microeconomics	Semester I	11-12	
AP Macroeconomics	Semester II	11-12	
AP U.S. Government	Year	11-12	

CIVICS TEST GRADUATION REQUIREMENT: According to state law, all students must pass a Civics Test to graduate high school. All students will have the opportunity to study for and take the Civics Test in their required Social Studies courses.

U.S. HISTORY I

Course: 123181/223181
Credit: 1.0/Year
Offered: Year
Year Taken: 9
Prereq: None
Fee: None

This year-long course is required of all freshmen. Students will study early American Indian cultures, European exploration and colonization, the development of the American Revolution, the U.S. Constitution, U.S. westward expansion, the institution of slavery throughout U.S. history, and the significance of the U.S. Civil War. This course fosters the development of skills needed for future social studies courses. These study skills include note taking, conducting historical research, and analytical writing.

U.S. HISTORY II

Course: 123211/223211
Credit: 1.0/Year
Offered: Year
Year Taken: 10
Prereq: None
Fee: None

This year-long course is required of all sophomores. The course covers the period from the 1880's to the present. The student will study the political process, including reform movements and conservative periods; the opportunities and problems with the development of capitalism; industry from the industrial revolution to the post-industrial period; our nation's involvement in war and peace; and major social developments of the twentieth century through the lives of ordinary Americans.

ADVANCED PLACEMENT U.S. HISTORY II

Course: 123221/223221
Credit: .5/Year
Offered: Year
Year Taken: 10
Prereq: Successful completion of US History I Extended or teacher approval. Concurrent enrollment in US History II
Fee: None

The Advanced Placement U.S. History Extension is an opportunity for sophomore students to look deeper into U.S. History while learning the skills necessary to take the AP exam. In the AP U.S. History Extension students will investigate significant events, individuals, developments and processes in the nine historical periods from around 1491 to the present. In this class students will learn and practice the skills necessary to be successful on the AP exam. Students will do a significant amount of practice with long essay, short answer, document based and multiple choice questions. Students will also be expected to commit to studying outside of this class for the exam. This extension course is offered to freshman that successfully completed the U.S. History I Extension, or by instructor permission.



ECONOMICS

Course: 123041/223041
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: None

Imagine this: you're hanging out with your friends, it's starting to get late, and you decide it's time to go home. How did you make that decision? What factors did you consider? Economics is the study of the choices we make every day. In Economics, a one-semester course, we will investigate how we make decisions about how we use our resources. If you've ever wondered what caused the 2008 financial crisis or why the mall keeps losing stores, Economics is the class for you. We will look into the basics of understanding economics and economy, how producers and consumers decide the appropriate prices for goods, the stock market, different market structures like monopolies, how the government gets involved in the economy for better or worse, personal financial literacy, and much more. Economics is strongly recommended, but not required, for AP Microeconomics and/or AP Macroeconomics.

Course meets Financial Literacy requirements as set forth by Wausau School District.



ECONOMICS - VIRTUAL

Course: 123051/223051
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: None

Imagine this: you're hanging out with your friends, it's starting to get late, and you decide it's time to go home. How did you make that decision? What factors did you consider? Economics is the study of the choices we make every day. In Virtual Economics, a self-paced online one-semester course, we will investigate how we make decisions about how we use our resources. If you've ever wondered what caused the 2008 financial crisis or why the mall keeps losing stores, Economics is the class for you. We will look into the basics of understanding economics and the economy, how producers and consumers decide the

continued

appropriate prices for goods, the stock market, different market structures like monopolies, how the government gets involved in the economy for better or worse, personal financial literacy, and much more. Economics is strongly recommended, but not required, for AP Microeconomics and/or AP Macroeconomics.

Course meets Financial Literacy requirements as set forth by Wausau School District.

Note: the course content for this class is completely online. You will be expected to schedule a one mod weekly face-to-face consultation meeting with the instructor. Additional mods may be scheduled as needed.

This course is also listed on [page 126](#) of the handbook.



GOVERNMENT

Course: 123071
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: None
Fee: None

Government is a semester long course open to grades 10 – 12. What is government? How do communities, states, and countries keep in order? How do things get done? How do decisions get made? These are just some of the questions we will look at in Government. Over the course of the semester, the course will give an introduction to how America works by looking at how and why governments are created, your liberties and rights within the government, as well as the political institutions within government. Also, you will look at developing your own political beliefs as we discuss and debate current news events, political issues, and social problems as a basis for understanding what it means to be an American today. Finally, after looking at the structure of our government, we will apply what we have learned to the understanding of key American issues and policies, both foreign and domestic.

WORLD HISTORY

Course: 123241/223241
Credit: 1.0/Year
Offered: Year
Year Taken: 11
Prereq: None
Fee: None

This year-long course is required of all juniors. World History provides a panoramic view of our world through the ages. The course is a balance between European, Asiatic, Latin American, and African history. Each unit focuses on the development and significance of the history and culture of the time period studied. The major objective of the course is to provide an understanding of today's world by viewing selected areas of the world, such as Latin America, Africa, the Middle East, China, India and Europe. Francois Rabelais once wrote: "Then I began to think, that it is very true which is commonly said, that the one-half of the world knoweth not how the other half liveth." Upon completion of this course, the student will have explored "how the other half liveth".



SOCIOLOGY

Course: 123271/223271
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

Sociology is a semester long course that investigates the study of human behaviors. This course also examines the interactions between groups and institutions within our society. If you are interested in understanding the patterns of human interdependence that shape your daily life, then Sociology is a course for you. Sociology will help develop understandings and skills needed to work with others to solve problems and analyze information. These skills are recognized by employers as being important in the work setting and will serve you well in the career path of your choice.

PSYCHOLOGY

Course: 123131/223131
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 11-12
Prereq: None
Fee: None

Psychology is everywhere! Understanding how and why we think, feel, and act like we do are insights that anyone can use in everyday life. This semester-long course is designed to introduce students to the field of Psychology and its practical applications. This survey course will include: introduction/research, sensation & perception, learning, development, personality, and Social Psychology. Come see what Psychology is all about!

AP PSYCHOLOGY

Course: 123141/223141
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: None
Fee: \$2

Who are we, and why do we do the things we do? There are so many facets to human behavior. The brain, genetics, childhood, learning, thinking, intelligence, motivation, emotion, personality, culture, gender and society are all factors in who we are, and who we will become. This course covers all of these topics in addition to research methods, sensation and perception, stress and states of consciousness and abnormal psychology. This is a college-level course designed to help you understand both how Psychology is studied, as well as what the field has uncovered regarding human and animal behavior. Further, you will apply what you have learned to major issues in society today. This course is designed to earn you credit on the AP exam and to give you experiences that will help prepare you for your post-secondary life. Most importantly, it will get you to think about yourself and others around you in meaningful ways.



AP MICROECONOMICS

Course: 123321
Credit: .5/Sem.
Offered: Semester I
Year Taken: 11-12
Prereq: Economics is recommended but not required.
Fee: None

AP Microeconomics is a one-semester course offered during the 1st semester. It may be taken prior to AP Macroeconomics or as a stand-alone AP class. The course focuses on a college level study of Microeconomic concepts, including marginal costs/benefits, supply and demand, elasticity, structure of markets, welfare analysis, consumer and producer surplus, externalities and the role of government, total cost, output, revenue, and game theory. Students will have the opportunity to obtain 3-5 college credits for Microeconomics by passing the AP test.



AP MACROECONOMICS

Course: 223321
Credit: .5/Sem.
Offered: Semester II
Year Taken: 11-12
Prereq: Economics is recommended but not required.
Fee: None

AP Macroeconomics is a one-semester course offered during the 2nd semester. It may be taken after AP Microeconomics or as a stand-alone AP class. The course focuses on a college level study of Macroeconomic concepts, including international trade, currency exchange, production possibilities and trade-offs, supply and demand, measures of economic performance, the circular flow of goods and services, fiscal and monetary policy, money and banking, productivity and unemployment, budget deficits and inflation, and supply/demand side economic policies. Students will have the opportunity to obtain 3-5 college credits for Macroeconomics by passing the AP test.



AP U.S. GOVERNMENT

Course: 123281/223281
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Junior or Senior
Fee: None

This rigorous year-long course parallels a college level Introduction to the U.S. Government course. Students may earn college credit upon successful completion of the AP Exam in May. AP U.S. Government introduces students to key political ideas, institutions, policies, interactions, roles and behaviors that characterize the political culture of the United States. Students will learn how to assess causes and consequences of political events and interpret data to develop evidence-based arguments. Throughout the year, you will develop your own political beliefs as we discuss and debate current events, political issues, and social problems as a basis for understanding how our governmental system works today.

SPECIAL EDUCATION

Students identified as having special education needs will be assigned a case manager. An Individual Educational Plan (IEP) will be jointly written by the parents, student, special education teacher, regular education teacher, administrative designee and others involved in the student's program. Course selection and graduation requirements will be determined within the Special Education network.

Please contact the Special Education Dept. Leader for information regarding course offerings.

BUSINESS CORE

Course: 114041
Credit: .5/Sem.
Offered: Semester I
Year Taken: 9-12
Prereq: Consent of Counselor and/or Special Education Teacher
Fee: None

This course is designed for students who need instruction in basic keyboarding. Areas of study to include career exploration, employment skills, and consumer information, as well as software programs, which include Google Drive and Microsoft Word. Keyboarding of class assignments using the correct format will be included such as writing reports and papers.

Note: Student must successfully complete Business Core semester 1 or a Keyboarding class to advance to Today's Tech Trends Core semester 2.

This course is also listed on [page 52](#) of the handbook.

LIFETIME PURSUITS

Course: I 134281/234281
 II 134291/234291
Credit: .25/Sem.
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation Only
Fee: None

Specially Designed Physical Education. This course is IEP driven, designed to meet the unique needs of each student. The focus will be put on lifetime activities such as swimming, bowling, adventure education, curling and fitness related activities.

SPORTS AND SKILLS

Course: 134271/234271
Credit: .25/Sem.
Offered: Year
Year Taken: 9-12
Prereq: Teacher Recommendation Only
Fee: None

Specially Designed Physical Education. This course is IEP driven, designed to meet the unique needs of each student. The class is fitness based teaching the components of fitness, as well as helping students to understand their fitness needs, and design plans accordingly. Students will also learn appropriate game play, stressing teamwork and cooperation along with overcoming challenges of self and others in participation.

RESOURCE**Credit:** .5/Sem.**Offered:** Year**Year Taken:** 9-12**Prereq:** Consent of Special Education Teacher**Fee:** None

This course is designed for students who have an Individual Education Plan (IEP). Daily scheduled time varies based on specific student needs. Individual student goals are addressed during this structured individual and small group instruction time.

WORKPLACE READINESS**Course:** 234300**Credit:** .5/Sem.**Offered:** Semester II**Year Taken:** 10-12**Prereq:** Consent of Special Education Teacher, EL

Teacher or Administration

Fee: None

This semester-long course will focus on employability skills including critical thinking, workplace ethics, responsible behavior, completion of job applications, interviewing skills and workplace etiquette. There will be a classroom component and hands-on opportunities to build and reinforce skills in a workplace setting. The main focus is to provide instruction to strengthen the students' employability skill sets.

TECHNOLOGY AND ENGINEERING EDUCATION

Technology and Engineering Education courses provide application to core curriculum, enhance technological literacy and develop career awareness. Students participate in hands-on, problem solving activities throughout a wide variety of course offerings. The learning experiences in TEE courses offer hands-on/minds-on opportunities for students to solve a variety of real world problems with cutting-edge and traditional technologies. Technology and Engineering Education, furthermore, provides students with the opportunity to apply Math, Science, and other academic subjects in a stimulating atmosphere utilizing knowledge, tools, and skills.

Course Titles	Offered	Year Taken	
MANUFACTURING TECHNOLOGY			
Metals – Material Processes	Semester I	9-12	 
Metals II – Machine Tool Applications	Semester II	10-12	
Introduction to Welding	Semester I	10-12	
Intro to CAD/CAM	Semester II	9-12	
Woods – Material Processes	Semester II	9-12	
Woods II – Fundamentals of Furniture Manufacturing	Semester I	10-12	
Building Trades I: Rough Framing	Semester I	10-12	
Building Trades II: Finish Carpentry	Semester II	10-12	
Advanced/Warrior Manufacturing	Year	11-12	
COMMUNICATIONS			
Graphic Communications I	Semester I or II	9-12	
Graphic Communications II	Semester II	9-12	
Graphic Communications III	Year	12	
PROJECT LEAD THE WAY (Pre-Engineering Academy)			
Introduction to Engineering Design	Year	9-10	
Principles of Engineering	Year	10-12	
Digital Electronics**	Year	11-12	
Civil Engineering & Architecture	Year	11-12	
Computer Integrated Manufacturing**	Year	11-12	
Engineering Design & Development	Year	11-12	
TECHNOLOGY/AUTOMOTIVE			
Introduction to Power Mechanics	Semester II	9-12	
Auto Awareness (East HS)	Semester I or II	10-12	
Occupational Mechanics I (East HS)	Year	10-12	
Occupational Mechanics II (East HS)	Year	12	
Auto Academy (NTC)	Year	12	
YOUTH APPRENTICESHIP PROGRAM			
Architecture and Construction	One or Two Years	11-12	See page 58
Graphic Design/Printing	One or Two Years	11-12	See page 58
Manufacturing	One or Two Years	11-12	See page 60
Science, Technology, Engineering and Math (STEM)	One or Two Years	11-12	See page 61
Transportation, Distribution and Logistics	One or Two Years	11-12	See page 61
GENERAL ELECTIVE			
Geometry Applications	Year	9-12	

**not offered 2021-2022

TECHNOLOGY AND ENGINEERING EDUCATION PROGRAM SEQUENCING

Automotive Technology

Introduction to Power Mechanics
Occupational Mechanics I ~
+ Occupational Mechanics II ~
Auto Awareness*
Auto Academy

Manufacturing Technology

Metals & Material Processes
Woods & Material Processes
Introduction to CAD/CAM
+ Building Trades I: Rough Framing
+ Building Trades II: Finish Carpentry
+ Introduction to Welding
+ Metals II – Machine Tool Applications
+ Woods II – Fundamentals of Furniture Manufacturing
Advanced Manufacturing

Communications Technology

Graphics Communications I
Graphics Communications II
+ Graphics Communications III
Broadcast Studio

Engineering/Project Lead the Way

^ Introduction to Engineering Design (IED)
^ Principles of Engineering (POE)
^ Digital Electronics (DE)
^ Civil Engineering & Architecture (CEA)
^ Computer Integrated Manufacturing (CIM)
Engineering Design & Development (EDD)

Youth Apprenticeship Program Coursework

Arts, A/V Technology and Communication

Graphics Communications I, II
+ Graphics Communications III

Architecture/Construction

+ Building Trades I & II
or
^ Principles of Engineering (PLTW-POE), **plus**
^ Civil Engineering & Architecture (PLTW-CEA)

Drafting/Mechanical Design Engineering

^ Principles of Engineering (PLTW-POE)
plus one specialty PLTW course

Manufacturing

+ Introduction to Welding and/or
+ Machine Tool Applications
+ Advanced Manufacturing

STEM

^ Principles of Engineering (PLTW-POE)
plus one specialty PLTW course

Transportation, Distribution & Logistics

* Occupational Mechanics I
* Occupational Mechanics II

~ Course taught at Wausau East High School
+ Dual Credit through Northcentral Technical College
^ College Credit through Milwaukee School of Engineering or Rochester Institute of Technology



TECHNOLOGY AND ENGINEERING EDUCATION COURSE OFFERINGS



NTC Logo = Dual Credit Possible. See [page 6](#) and/or the Technology and Engineering Education Department Chairperson for further information.

MANUFACTURING TECHNOLOGY



METALS - MATERIAL PROCESSES

Course: 124171
Credit: .5/Sem.
Offered: Semester I
Year Taken: 9-12
Prereq: None
Fee: No fee, 2018-2019 grant

This course is designed as an introduction to manufacturing processes, careers and applications. Student experiences include completing projects in precision measurement, blueprint reading, machining (lathe, milling, drill press, grinder, and band saw machines), sheet metal work, welding, CNC (computer numeric control) applications, and career research.

METALS II - MACHINE TOOL APPLICATIONS

Course: 224291
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Metals-Material Processes
Fee: No fee, 2018-2019 grant
Credit: Dual Credit. See [page 6](#).

Learners will focus on shop safety guidelines and become familiar with common machine shop equipment. Focus will be on drill press, power saw, elementary lathe and mill operations and pedestal grinding machines. Learners will gain knowledge in layout tools and procedures and the proper use of hand tools in the shop. **In addition, students who successfully complete the class will also receive two dual credits through NTC.**



NTC Equivalent Class:
Machine Tool and Applications IA #32-420-631 (2 credits)
Department: Machine Shop

INTRODUCTION TO WELDING

Course: 124491
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Metals-Material Processes
Fee: No fee, 2018-2019 grant
Credit: Dual Credit. See [page 6](#).

This course provides an introduction and hands-on exposure to each of the major welding processes. Related safety and in depth fundamentals of SMAW (STICK), GMAW(MIG), FCAW, GTAW(TIG), and Oxy-Fuel and Plasma cutting will be covered. **Students who successfully complete this course will receive two Dual Credits through NTC.** This course is counted as the first course in **NTC's diploma and certificate welding programs.** It will also satisfy the **welding requirement for NTC's automotive and machine tool programs.**



NTC Equivalent Class:
Introduction to Welding #10-442-101 (2 credits)
Department: Welding

INTRODUCTION TO CAD/CAM

Course: 224371
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: None
Fee: No fee, 2018-2019 grant

This course is intended for students who are interested in developing knowledge and skills in computer aided design. During this class, students will engage in several opportunities in computer integrated manufacturing. Students will utilize several software platforms including: AutoCAD (2D CAD), Autodesk Inventor (3D solid modeling), Vectric Aspire (computer aided manufacturing software) as well as several CNC (Computer Numeric Control) machines to generate solutions, develop working drawings, create visual models, and construct prototypes for proposed mechanical design problems.

WOODS - MATERIAL PROCESSES

Course: 224471
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: None
Fee: No fee, 2018-2019 grant

This course is designed to give students insight into the technologies applied in the manufacturing of wood products. Throughout the course, students will learn how to safely use hand tools, powered hand tools, and stand alone power equipment. Students will have the opportunity to complete projects both individually and as a member of a team.

WOODS II - FUNDAMENTALS OF FURNITURE MANUFACTURING

Course: 124541
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Woods-Material Processes
Fee: No fee, 2018-2019 grant
Credit: Dual Credit. See [page 6](#).

This course is designed to provide the foundational knowledge and skills related to wood furniture manufacturing. Students will be learning new skills as well as building upon skills learned in Woods and Materials Processes. Topics covered include: furniture design styles, sourcing raw material for projects, tool selection, machine operation, joinery, and furniture construction. Students will be using the skills and concepts learned in the classroom to design and build a piece of furniture for the final project. **In addition, students who successfully complete the class will also receive two dual credits through NTC.**



NTC Equivalent Class:
 Fundamentals of Furniture Manufacturing #10-465-119 (2 credits)
 Department: Wood Technology

BUILDING TRADES I: ROUGH FRAMING

Course: 124401
Credit: .5/Sem.
Offered: Semester I
Year Taken: 10-12
Prereq: Woods-Material Processes recommended
Fee: No fee, 2018-2019 grant
Credit: Dual Credit. See [page 6](#).

This intermediate level course offers students a chance to develop construction related knowledge and application. Students will construct various wall systems while focusing on construction safety, standard building practice, estimating, mechanical systems, energy conservation, and interior/exterior finishing applications. Specific activities include building wall sections (wood framed, masonry, etc.), installing electrical and plumbing components/fixtures, applying interior/exterior finishes (drywall, paneling, siding, etc.), and various other construction and home maintenance skills. **Students who successfully complete this course will receive Dual Credit through NTC.**



NTC Equivalent Class:
 Rough Framing 1A #31-410-303 (2 credits)
 Department: Residential Building

BUILDING TRADES II: FINISH CARPENTRY

Course: 124411/224411
Credit: .5/Sem.
Offered: Semester II
Year Taken: 10-12
Prereq: Building Trades I
Fee: No fee, 2018-2019 grant

Building Trades II: Finish Carpentry is meant to serve as a next step beyond the class Building Trades I: Rough Carpentry. The class will cover various skills, systems and applications found in residential building systems. Concepts covered will include: finish carpentry, interior trim, window and door installation, siding, roofing and drywall, as well as HVAC, plumbing and electrical systems.

This class is not approved by the NCAA Eligibility Center.

ADVANCED/WARRIOR MANUFACTURING

Course: 124281/224281
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Two previous manufacturing courses + Intro to CAD
Fee: No fee, 2018-2019 grant

Warrior Manufacturing is the capstone experience offered within the manufacturing sequence. This year-long course is designed to function as a business in which students are responsible for every facet of the organization. Students will apply and interview for individual positions within the business and assume responsibility for fulfillment of job duties. Students enrolled in Warrior Manufacturing will explore in depth various manufacturing careers, manufacturing processes, and materials. Activities may include: advanced woodworking and metalworking machining applications, computer controlled machining, advanced welding applications such as TIG (stainless and aluminum) and welding joinery, and advanced sheet metal pattern layout.

COMMUNICATIONS TECHNOLOGY



GRAPHIC COMMUNICATIONS I

Course: 111071/211071
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 9-12
Prereq: None
Fee: No fee, 2018-2019 grant

In this class, students will develop skills in layout and design using Adobe suite of graphic design software including: InDesign, Photoshop, and Illustrator. Projects include calendar design, T-shirt screen printing, vinyl graphic design and creation, and laser engraving.

GRAPHIC COMMUNICATIONS II

Course: 211081
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: Graphic Communications I
Fee: No fee, 2018-2019 grant

Graphic Communications II is a project based course which applies advanced techniques in Photoshop, InDesign, Premiere, PowerPoint, Illustrator, and digital photography. Student projects will include shirt design and creation, laser engraving, vinyl decal design and production, poster design, and a class design/marketing/production project.

GRAPHIC COMMUNICATIONS III/WARRIOR GRAPHICS**Course:** 111091/211091**Credit:** 2.0/Year**Offered:** Year**Year Taken:** 12**Prereq:** Graphic

Communications I & II

Fee: No fee, 2018-2019 grant**Credit:** Dual Credit. See[page 6.](#)

Warrior Graphics is the capstone level advanced Graphic Communications class. It is the final course offered in the Graphics Communications sequence. This course is designed for those students who are interested in a career in the Graphics Communications industry. Skills learned in the first two courses of the Graphics Communications sequence will be applied to produce a model of the graphics industry in the classroom. Students will be designing, marketing, and producing products. Students will be mirroring production methods used in industry. Students in this course will be doing hands-on learning as they work through these production methods. Due to the detailed processes that production work entails this course meets 20 mods per week for the full year.

Students who successfully complete this course will receive Dual Credit through NTC.



NTC Equivalent Class:

Photoshop/Image Manipulation #10-204-126 (2 credits)

Department: Printing

PROJECT LEAD THE WAY COURSE OFFERINGS



INTRODUCTION TO ENGINEERING DESIGN (PLTW-IED)

Course: 124461/224461
Credit: 1.0/Year
Offered: Year
Year Taken: 9-10
Prereq: None
Fee: No fee, 2018-2019 grant
Credit: College credit through MSOE or RIT



Introduction to Engineering Design (IED) is the first course offered within the Project Lead The Way (PLTW) curriculum. This year-long course is designed to introduce students to the design process and the tools used in product development. Students enrolled in IED will learn through first-hand experience the activities that engineers engage in throughout the design cycle. Development of design briefs, sketching, 3D solid modeling, and prototyping will provide the foundation for activities in IED. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

PRINCIPLES OF ENGINEERING (PLTW-POE)

Course: 124271/224271
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: PLTW-IED
 Recommended but not required
Fee: No fee, 2018-2019 grant
Credit: College credit through MSOE or RIT



Principles of Engineering (POE) is the second course offered within the Project Lead The Way (PLTW) curriculum. This year-long course is designed to further students' understanding in the field of engineering/technology. Students enrolled in POE will explore various technological systems, manufacturing processes, and how engineers/technicians use math, science and technology in an engineering problem solving process to benefit people. Activities that provide the foundation of POE include: study of mechanisms, energy, electrical/fluid systems; exploration of material properties, statics, strength, testing; survey of control systems and introductory robotics. The course also includes concerns about social and political consequences of technological change.

Note: Course can fulfill 1 credit toward high school graduation requirements as a non-lab science. This course will not count as a lab science requirement for college admission. Please refer to admissions requirements from individual post-secondary institutions or contact Theran Peterson, Technology Education Department Chair, for more information.

DIGITAL ELECTRONICS (PLTW-DE) (not offered 21-22)

Course: 124051/224051
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Algebra I
 (PLTW-IED & PLTW-POE recommended not required)
Fee: No fee, 2018-2019 grant
Credit: College credit through MSOE or RIT



Digital Electronics (DE) is a specialization course offered within the Project Lead The Way (PLTW) curriculum. The use of digital circuitry is around us every day and is rapidly growing. As a result, students will be studying digital logic while being introduced to digital circuits found in video games, digital cameras, and thousands of other devices. Students will study the application of digital logic and how digital devices are used to control automated equipment. Students will also design and test digital circuitry with computer simulation software as well as construct circuits and devices. This is a course designed for students exploring a career in electricity, electronics, engineering, or engineering technology.

Note: This year-long course can fulfill 1.0 credit toward high school graduation requirements as a math course. Please refer to admissions requirements from individual post-secondary institutions or contact the college of choice to obtain clarification/approval. Contact Theran Peterson, Technology Education Department chair for more information.

CIVIL ENGINEERING & ARCHITECTURE (PLTW-CEA)

Course: 124481/224481
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: PLTW-IED & PLTW-POE recommended but not required
Fee: No fee, 2018-2019 grant
Credit: College credit through MSOE or RIT



Civil Engineering & Architecture (CEA) is a specialization course offered within Project Lead The Way (PLTW) curriculum. This year-long course provides students an overview of the fields of civil engineering and architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as: the roles of civil engineers and architects, project planning, site planning, building design, utilization of surveying equipment (transits, levels, lasers), project documentation and presentation, and utilization of three dimensional design/architectural software (Autodesk: Revit, Map, Civil).

COMPUTER INTEGRATED MANUFACTURING (PLTW-CIM) (not offered 21-22)

Course: 124251/224251
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: None (PLTW-IED & POE recommended but not required)
Fee: No fee, 2018-2019 grant
Credit: College credit through MSOE or RIT



Computer Integrated Manufacturing (CIM) is a specialization course offered within the Project Lead the Way (PLTW) curriculum. How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they're learning about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems.

Course: 124261/224261
Credit: 1.0/Year
Offered: Year
Year Taken: 11-12
Prereq: PLTW-IED & one other PLTW class strongly recommended
Fee: No fee, 2018-2019 grant

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel.

AUTOMOTIVE TECHNOLOGY



INTRODUCTION TO POWER MECHANICS

Course: 224441
Credit: .5/Sem.
Offered: Semester II
Year Taken: 9-12
Prereq: None
Fee: No fee, 2018-2019 grant

This course is designed for students who are interested in exploring the use of energy, its relationship to power and transportation, and its importance to our society. During this class, students will examine the various sources and forms of energy; explore the transmission and control of power systems, examine small engine theory of operation and its application to drive systems. Student experiences include: observing, troubleshooting, and applying two and four-cycle engine theory.

AUTO AWARENESS (EAST HS)

Course: 124071/224071
Credit: .5/Sem.
Offered: Semester I or II
Year Taken: 10-12
Prereq: None
Fee: No fee, 2018-2019 grant

This course covers basic systems of the automobile. Units of instruction include: tools, auto products, ignition, fuel, electrical, cooling, general maintenance, interior/exterior care, and new/used car purchasing. This course provides a theory of operation and practical lab experiences for the automobile owner. Driver's License and access to a vehicle strongly recommended.

Note: Family/student is responsible for transportation to and from this class at Wausau East.

OCCUPATIONAL MECHANICS I (EAST HS)

Course: 124181/224181
Credit: 1.0/Year
Offered: Year
Year Taken: 10-12
Prereq: Introduction to Power Mechanics and/or Auto Awareness and/or Instructor's Consent
Fee: No fee, 2018-2019 grant

An occupational preparation course that develops job entry level skills in: Basic maintenance, Electronics, Brakes I, and Auto Tune-up. The students will have the opportunity to work on their own vehicle repairs. This course is based on hands-on lab activities, supported by classroom operational theory of automotive systems.

Note: Family/student is responsible for transportation to and from this class at Wausau East.

OCCUPATIONAL MECHANICS II (EAST HS)

Course: 124201/224201
Credit: 2.0/Year
Offered: Year
Year Taken: 11-12
Prereq: Occupational Mechanics I. Metals-Materials Processes is also required however it may be taken simultaneously with Occupational Mechanics I
Fee: No fee, 2018-2019 grant
Credit: Dual Credit. See [page 6](#).

This class is a continuation of Occupational Mechanics I. The course develops entry level skills/competencies in the following ASE (National Institute for Automotive Service Excellence) areas: Suspension & Steering, Brakes, Electrical/Electronic Systems, and Engine Performance. Time will be spent both in class and at the AYES jobsite (where applicable). In the lab and at the AYES jobsite (where applicable) students will gain hands-on experience with state-of-the-art tools and large-scale diagnostic/repair equipment, develop employability skills and spend time developing a good resume. Lab work will be performed mainly on late model donated vehicles; however, students will have the opportunity to work on their own vehicle repairs. **Students who successfully complete this course will receive dual credit through NTC.**



NTC Equivalent Class:
 Auto Service Fundamentals #10-602-107 (2 credits)
 Department: Tech & Trades

Note: Family/student is responsible for transportation to and from this class at Wausau East.

AUTO ACADEMY (NORTHCENTRAL TECHNICAL COLLEGE)

Course: 124691/224691
Credit: 2.5/Year
Offered: Year
Year Taken: 12
Prereq: Auto Awareness, Intro Power Mechanics, Occupational Mechanics I & II
Fee: No Fee
Credit: Dual Credit. See [page 6](#).

Students who successfully complete the prerequisite transportation classes may be eligible to participate in NTC's Auto Academy during their senior year of high school. Academy coursework will be taught on campus at NTC by NTC instructors. The Auto Academy will prepare you to be workforce-ready through Youth Apprenticeship at area businesses, and you will earn an Automotive Maintenance & Light Repair Technical Diploma. All credits (a tuition value of \$1800) transfer to NTC associate degrees or technical diplomas, so you will have a jump start to continue your education after high school. **Students who successfully complete this course will receive dual credit through NTC.**



Note: Family/student is responsible for transportation to and from this class at NTC.

GENERAL ELECTIVE

GEOMETRY APPLICATIONS

Course: 119481/219481

Credit: .5/Year

(*this is an elective credit)

Offered: Year

Year Taken: 9-12

Prereq: Concurrent enrollment in Geometry

Fee: None

Geometry presents many abstract math concepts that can be difficult to grasp in a theoretical sense. Geometry Applications is a class taken concurrently with Geometry in which students will participate in hands-on rigorous and relevant applications to these theoretical concepts. Geometry Applications utilizes the resources of the Technology and Engineering Education (TEE) department staff and facilities in conjunction with classroom Geometry teachers, and the course content directly relates to the traditional Geometry math class. All Geometry students would receive the same instruction during Geometry class, however, students that have enrolled in Geometry Applications would have an opportunity to gain additional practical applications through project-based instruction. The class is offered as a .25 elective credit per semester and meets one hour per week with projects to complete outside of the classroom.

Note: It is strongly recommended that students enroll in a maximum of two electives in addition to Geometry Applications due to the time requirements of the class.

This class is not approved by the NCAA Eligibility Center.

This course is also listed on [page 92](#) of the handbook.

VIRTUAL COURSE OFFERINGS

The following virtual courses are being offered to Wausau West students in a partnership with Wausau Area Virtual Education (WAVE). These courses will be taught by Wausau West instructors. Students will schedule one mod per week to meet face-to-face with the teacher, but the course will be taught entirely online. Students will be required to meet course pacing guidelines to ensure completion within the semester time frame. *These courses, like all others, will be part of the student's transcript and factored into the GPA.*

FITNESS FUNDAMENTALS

FITNESS

FUNDAMENTALS I

Course: 134311

Credit: .5/Sem.

Offered: Semester I

FITNESS

FUNDAMENTALS II

Course: 234321

Credit: .5/Sem.

Offered: Semester II

Year Taken: 11-12

Prereq: None

Fee: None

Department: Physical Education

This course is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students participate in pre- and post-fitness assessments in which they measure and analyze their own levels of fitness based on the five components of physical fitness: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. In this course, students research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Throughout this course, students participate in weekly fitness programs involving elements of cardio, strength, and flexibility.

Note: the course content for this class is completely online. You will be expected to schedule a one mod weekly face-to-face consultation meeting with the instructor. Additional mods may be scheduled as needed.

This course is also listed on [page 99](#) of the handbook.

ECONOMICS

Course: 123051/223051

Credit: .5/Sem.

Offered: Semester I or II

Year Taken: 10-12

Prereq: None

Fee: None

Department: Social Studies

Imagine this: you're hanging out with your friends, it's starting to get late, and you decide it's time to go home. How did you make that decision? What factors did you consider? Economics is the study of the choices we make every day. In Virtual Economics, a self-paced online one-semester course, we will investigate how we make decisions about how we use our resources. If you've ever wondered what caused the 2008 financial crisis or why the mall keeps losing stores, Economics is the class for you. We will look into the basics of understanding economics and the economy, how producers and consumers decide the appropriate prices for goods, the stock market, different market structures like monopolies, how the government gets involved in the economy for better or worse, personal financial literacy, and much more. Economics is strongly recommended, but not required, for AP Microeconomics and/or AP Macroeconomics.

Course meets Financial Literacy requirements as set forth by Wausau School District.

Note: the course content for this class is completely online. You will be expected to schedule a one mod weekly face-to-face consultation meeting with the instructor. Additional mods may be scheduled as needed.

This course is also listed on [page 109](#) of the handbook.

WAUSAU WEST HIGH SCHOOL CO-CURRICULAR CLUBS AND ACTIVITIES

2021-2022

Wausau West offers a multi-dimensional program of activities and athletics for students of all ages, interests and ability levels. A summary of these programs is listed below.

If you have any questions or concerns, please contact the Activity/Athletic Director of Wausau West High School, Brian Miller, at 261-0874.

EXTRA-CURRICULAR SPORTS: 14 Boys' Programs, 16 Girls' Programs, 30 Total

FALL ATHLETICS

Boys: Cross Country, Football, Soccer

Girls: Cheer, Cross Country, Golf, Swimming, Tennis, Volleyball

WINTER ATHLETICS

Boys: Alpine Skiing, Basketball, Curling, Hockey, Nordic Skiing, Wrestling

Girls: Alpine Skiing, Basketball, Cheer, Curling, Hockey, Nordic Skiing

SPRING ATHLETICS

Boys: Baseball, Golf, Lacrosse, Tennis, Track

Girls: Soccer, Softball, Track, Lacrosse

\$50 Athletic User Fee per sport/season/year (Lacrosse \$75 & Cheer \$100 uniform fee)

FINE ARTS PROGRAM: 3 Programs

Drama and Music

School Play: Fall, Spring

West Jazz Band: Winter/Spring

Pop Concert: Spring

SCHOOL CLUBS AND ACTIVITIES:

Archery Club	French Club	Pop Concert
Art Club	French Forensics (Concours Oral)	Prom Committee
Astronomy Club	French National Honor Society	Publications Staff (Yearbook/Magazine)
Bread Club	German Club	Robotics Team
Calligraphy Club	GSA Club	Safe School Ambassadors
Chess Club	International Club	Science Olympiad
Computer Club	Jazz Band	Skeet and Trap Club
Dance United	Key Club International	SkillsUSA
DECA (an Assoc. of Marketing Students)	Link Crew	Solar Olympics
Drama	Master Singers	Spanish Club
Esports Team	Math Club	Student Council
FCCLA (Family Career & Community Leaders of America)	Mock Trial	Unified Champion Schools
FCA – Fellowship of Christian Athletics	National Honor Society	Warrior Book Club
FFA Club	Outdoor Adventure Club	Warrior Minds Matter Club
Film Club	Peyton's Promise Leadership Group	Warrior Power
Forensics	Political Discourse Club	Winter Gala Dance Committee

WAUSAU WEST HIGH SCHOOL CLUBS AND ACTIVITIES

Archery Club: The purpose of this club is to allow students to learn, practice, and enjoy the sport of archery. The archery club will provide information about other archery programs in the area. Members may have the opportunity to compete in Club competitions or National Archery in the School Program (NASP) competitions.

Art Club: Art Club is for students who are hoping to further develop themselves as artists and explore new mediums. **ACTIVITY FEE: \$10**

Astronomy Club: An organization of students formed to learn, educate and inform the student body and the general public about astronomy through publications, planetarium shows and telescope outreach activities.

Bread Club: Bread Club is an enjoyable way for students to gather together and improve their social skills through the sharing of delicious bread.

Calligraphy Club: Calligraphy can be defined as "the art of beautiful handwriting." The Calligraphy Club offers a social environment for students and adults to practice, explore, and appreciate beautiful handwriting. Also, instructions will be given in the classic italic alphabet along with some tips and tricks along the way!

Chess Club: An opportunity designed for both existing chess player and new players alike. Come to the club to play a game, or learn how to play. Chess teaches patience, strategic planning, troubleshooting, math concepts and more. There are also options to compete in area chess tournaments as individuals and a team.

Computer Club: Keep informed about current trends in computing hardware and software. Make connections to local and national resources. Learn about opportunities for careers in Computer Science. Meet with guest speakers from local industry. Create a forum for sharing favorite programs, games, sites, and resources. Visit local colleges to explore CS degree programs. Sponsor events at Wausau West to promote computer education.

Dance United: The Dance United Club gives students a chance to creatively express themselves through the art of break-dancing. The club has seasoned veterans and brand new participants as well. Students of any skill level are welcome to attend, learn, and participate.

DECA (an Association of Marketing Students): DECA is a co-curricular, student-centered organization specifically designed to provide activities that will motivate students to learn marketing competencies that will prepare them to become skilled, employable workers in marketing, management and entrepreneurship related careers. DECA opens a window of social opportunities while helping to build leadership skills. Students also have the opportunity to compete in marketing related careers areas at District, State, and National levels. DECA students travel all over the U.S. to participate in many activities. **ACTIVITY FEE: \$25**

Drama Club: The goal of the Drama Club is to:

- Improve stage presence/skills through participation in various theater games, acting exercises, and guest speakers/demonstrations
- Enhance appreciation of theater arts by viewing productions, both live and recorded
- Have a voice in the planning of future drama events/productions at West
- Participate in fundraising and community service projects.

Watch for meeting times on the school message system. Anyone may participate.

Esports Team: The Wausau West Esports Team competes with other high schools around the state as a part of the Wisconsin High School Esports Association (WIHSEA). The WIHSEA currently offers the following games to compete in: League of Legends, Rocket League, Overwatch and Super Smash Bros Ultimate. Come join our team and prove you're the best!

FCCLA: Family Career and Community Leaders of America is the only national career and technical student organization with the family as its central focus. Since 1945, FCCLA members have been making a difference in their families, careers and communities by addressing important personal, work and societal issues through family and consumer sciences education. Chapter projects focus on a variety of youth concerns, including teen pregnancy, parenting, family relationships, substance abuse, peer pressure, environment, nutrition and fitness, teen violence and career exploration. Involvement in FCCLA offers members the opportunity to expand their leadership potential and develop skills for life - planning, goal setting, problem solving, decision making and interpersonal communication - necessary in the home and workplace. **ACTIVITY FEE: \$25** (if competing)

FCA: Fellowship of Christian Athletes promotes positive values to influence self-esteem with athletics. Bible study orientated with athletic emphasis.

FFA: TRAVEL! SCHOLARSHIP! CAREER SKILLS! LEADERSHIP! Discover the edge that FFA provides to 17,000 students in Wisconsin. FFA is a leadership organization for anyone interested in agriculture and making a difference. Do you like plants, animals, and the great outdoors - then you have an interest in agriculture! Our students can participate in travel opportunities like the National Convention in Louisville Kentucky, leadership workshops, develop skills in an agricultural career, and do a variety of community service projects. Some projects you might recognize are the Wisconsin River Clean Up or Food for America, where high school students teach fourth graders about agriculture in our state at a day on a local farm. Students also landscape in the community, work with other FFA chapters in the area and state and can participate in judging events like equine or forestry. Come discover the difference FFA can make for you! **ACTIVITY FEE: \$25**

Film Club: The Wausau West Film Club is a student-led organization dedicated towards creating opportunities for students to examine classic and contemporary films from varied national origins, time periods, and cinematic movements. We strive to shift perspectives on what film can be and to inspire students to analyze the motivations of directors as well as the purpose of the content they publish to the world.

Forensics Team: The Forensics Team is for students who want to improve their public speaking skills. Students attend competitions in which they are judged on the material they have prepared. Some categories students may compete in include play-acting, radio speaking, prose, poetry and speeches they have written. **ACTIVITY FEE: \$25**

French Club: French Club promotes the French language and culture. Students travel to local elementary schools to provide fun activities to get students interested in learning languages. French Club also has social events which include movie nights, waffle and crepe parties. The Club also does fundraising to take a bus every spring to the Stevens Point Culture Fest. The year ends with a spectacular French dinner at a local restaurant.

French Forensics (Concours Oral): The Concours Oral is where students may choose to compete in one of six different French speaking categories. These categories include Poetry Reading, Extemporaneous Prose Reading, Extemporaneous Conversation, Théâtre de Chambre, Reader's Theatre or Music Performance. After competing at the regional level, students who receive scores of A or B may participate at the state level.

French National Honor Society: La Societe Honoraire de Francais was established through presidential order by the AATF in 1949. The aim of this organization is:

- to stimulate interest in the study of French
- to promote high standards of scholarship
- to reward scholastic achievements
- to create enthusiasm for and an understanding of Francophone culture and civilization
- to promote and perpetuate international friendship
- to reward efforts toward furthering solidarity in the French-speaking world.

German Club: The German Club meets as often as needed to plan fundraisers and trips. The fundraisers consist of selling Advent calendars during the holiday season and selling German candy, "softy chews". All money earned goes towards our trip to a restaurant where we are served German specialties, movie nights, t-shirts, etc.

GSA Club: The Gay-Straight Alliance (GSA) is a student-run club that brings together LGBTQ and straight students to support each other, provide a safe place to socialize, and create a platform for activism to fight homophobia. The goal of the GSA focuses on activism to create safer schools and a safe environment for students who may be bullied because of his or her sexual orientation. Students learn to advocate for safe school policies, mobilize their peers to stand up for safety and equality, and work towards eliminating bullying.

International Club: The International Club is open to all students of all ethnic backgrounds. We participate in community service activities and attend events like the Festival of Nations in St. Paul. We serve to support all students in the global community. New members or interested visitors are welcome at any meeting.

Jazz Band: See band instructor for more information. **ACTIVITY FEE: \$25**

Key Club International: Key Club is a student-run service organization sponsored by the Kiwanis. Meetings are held twice a month before and after school. Key Club members volunteer for a variety of projects, helping in the school, Wausau area, and global community. Key Club is active throughout the year and new members are always encouraged to join.
National Organization Fee: \$15

Link Crew: Link Crew is a transition program that helps freshmen throughout the first year of their high school experience. Juniors and seniors, selected by West faculty, serve as Link Crew Leaders. As positive role models, Link Leaders guide the freshmen to discover what it takes to be successful in high school.

Master Singers: Master Singers is a 20-voice extracurricular choir made up of junior and senior members of the Concert Chorale who are selected by auditions, which are held in early September. Rehearsals are before school. Master Singers perform a challenging array of *a capella* selections, both for school concerts and for other events throughout the Wausau Community, especially in early December. **ACTIVITY FEE: \$25**

Math Club: Students will participate in the Central Wisconsin Math League through UWSP in the category determined by their current math class: Geometry, Algebra II, or Advanced Math (anything beyond Algebra II). There are 3 contests throughout the year along with an awards banquet at the end of the year. **ACTIVITY FEE: \$25**

Mock Trial: Are you interested in our legal system? Have you ever wondered what is it like to be an attorney or be a witness in a courtroom? Do you like to debate or perform in school concerts or plays? Here is your chance to compete against other area schools reenacting a civil or criminal case. **ACTIVITY FEE: \$25**

National Honor Society: The National Honor Society is an invitation-only service organization open to 2nd semester Juniors who have a cumulative GPA of 3.333. Students are invited based on academic merit. The student selection process begins in February. Students, who are invited to join, complete an application that is then reviewed by a faculty committee. Final selection is based on their leadership, service and character. The induction ceremony takes place in late April or early May.

Outdoor Adventure Club (formerly Environmental Club): The purpose of this club is to educate and cultivate an appreciation and interest in the environment and enjoying the outdoors. Activities are designed to promote education, leadership, service to the school and community and to have fun doing outdoor activities. Students have participated in river, highway and school cleanup; tree planting; hiking; biking and camping trips; implementing school recycling project; competing in Solar Olympics; Treehaven overnight with wolf howling; animal tracking and snowshoeing; Marine Biology Trip to Florida and Panama trip to study the Rain forest and Coral Reefs; and much more.

Political Discourse Club: This club will exist both as a forum for civil discourse for members, and a platform through which to influence school and community. The club will provide members with an opportunity to discuss current events and political theories, but will also serve the community by hosting events and working to promote voter education and reasoning. The mission statement is to further civil discourse and reasoning along with an understanding of politics to create a more stable and prosperous community.

Pop Concert: Pop Concert is an exciting, annual Wausau West Choir concert series in mid-May. These performances consist entirely of popular music from a variety of styles and decades, and feature the four choirs of Wausau West, plus numerous solo and small group acts organized by choir students. Three rounds of auditions are held. Choreography is also featured along with professional sound and lighting. Students must be in a choir in order to sing in Pop Concert, and must be a member of band or orchestra to play an instrument for Pop Concert.

Prom Committee: The Prom Dance Committee is a committee of junior and senior students that organize a formal dance and snacks for upperclassmen during the second semester. Both male and female students are encouraged to participate. This committee becomes active shortly after the Junior Girls Formal and continues through the end of April. Underclassmen are invited to help set up the dance and volunteer to work at the event to help it run smoothly. Money raised through ticket sales is used to pay for the event.

Publications Staff/Lab (Yearbook/Magazine): The yearbook/magazine production is part of the class titled "Publications Laboratory." Students sell advertising, design assigned pages, work with school photographers, as well as write and edit their own stories.

Robotics Team: Students on the Robotics Team learn how to design, build and program a robot that meets different league specifications each year. The team travels to various weekend tournaments throughout the season to compete against other teams in the game challenge for that year. We are always looking for capable students who have skills and interest in engineering and programming, and who are able to make a time commitment to meet several times per week after school, and some weekends, throughout the year. The Vex Robotics Challenge is a global competition with regional, state and national championships. In our region, we compete against schools primarily in the Fox Valley, about an hour and a half away. Unlike other school "clubs", the Robotics Team requires an application process. Students should demonstrate a dedicated interest in our activities and ideally have some advanced skills in engineering design. **ACTIVITY FEE: \$25**

Safe School Ambassadors: Safe School Ambassadors is a program that identifies and selects student leaders from diverse groups and equips them with nonviolent communication and intervention skills to help prevent bullying among their peers. They learn to defuse conflicts that arise in everyday life and to improve the school's climate.

Science Olympiad: Science Olympiad is an interscholastic competition designed to increase student interest and enthusiasm in science. The Science Olympiad tournament consists of 20-25 team events. A team consists of up to 15 students plus alternates and assistants. Challenging and fun events motivate and confront students from all ability levels with both theoretical and practical science problems. The emphasis is on participation, interaction, learning and developing team spirit. Winning teams from the state competitions are invited to participate at the national competition, held at different sites around the country each year.

ACTIVITY FEE: \$25

Skeet and Trap Club: The Skeet and Trap Club is open to all students interested in learning about gun safety, fun ways to improve marksmanship, teamwork and competitive shooting skills. Practices are held at the Wausau Skeet and Trap Club in Brokaw. We have students from West and East. Practices lead us to the state trap shoot in Mayville, WI. **ACTIVITY FEE: TBA**

SkillsUSA: The SkillsUSA Club is open to all students interested in learning and practicing employment skills and leadership skills that will result in greater confidence. They will have the opportunity to compete in SkillsUSA championships at local, state, and national levels. They will have the chance to earn scholarships, awards, and honors and to make job contacts and develop networking skills. They will also gain recognition from peers, teachers, and community leaders and have opportunities to attend leadership conferences at the state and national level. They will have access to SkillsUSA employment resources and have the chance to travel, meet a variety of new people and develop meaningful friendships. **ACTIVITY FEE: \$25**

Solar Olympics: Solar Olympics is an interscholastic competition between schools in the Wisconsin Public Service area. Teams of ten students compete in different events that focus on the use of solar energy. Projects may include building a solar water heater, solar powered race car, solar cooker, solar building design, solar marketing plan, solar photography, solar sculpture, solar t-shirt design and an essay on solar energy. Students prepare for the competition and then travel to a nearby university for the competition in the middle of May. Solar Olympics is sponsored by the Wisconsin Public Service Community Foundation and the SolarWise for Schools program.

Spanish Club: The Spanish Club is designed to celebrate and interact with the Spanish Culture. Activities include watching Spanish movies, having fiestas, making crafts and eating authentic Spanish food. Spanish Club is open to all students.

Student Council: Elected officers run the student body government. Activities include bi-weekly meetings, participation in decisions about school activities and attending various leadership camps and conferences. All students can participate without being on the council.

Unified Champion Schools (formerly Project Unify): This club is a partnership between Wausau West High School and Special Olympics of Wisconsin. Unified Champion Schools is student driven with a focus on developing and engaging in unified activities and breaking down barriers in our school culture.

Warrior Book Club: The Warrior Book Club is a student led organization dedicated to the discussion of student chosen books. The club gathers several times a month for a discussion about themes in the stories and their connections with everyday life. Students may need to purchase books however the club does try to acquire copies from local libraries.

Warrior Minds Matter Club: Warrior Minds Matter is a student-lead organization that aims to raise awareness and lower the stigma of mental health in our school environment. School-wide activities, advocacy opportunities and volunteer events are possible. We meet throughout the year and new members are always welcome!

Warrior Power: The Warrior Power Club is open to all students interested in increasing strength, explosiveness, speed, agility, stability and body control. Warrior Power is designed for all athletes of all levels to improve overall athleticism.

Winter Gala Formal Dance Committee (formerly Junior Girls): The Winter Gala Formal Dance Committee is a committee of junior and senior students that organize a formal dance and/or dinner for upper classmen during the first semester. Both male and female students are encouraged to participate. This committee becomes active shortly after Homecoming and continues through February. Underclassmen are invited to volunteer at the event to help it run smoothly. Money raised through ticket sales and fundraising is used to pay for the event.