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# CAREER PLANNING & COURSE REGISTRATION HANDBOOK



## CAREER PLANNING & COURSE GUIDE

### Table of Contents

#### **Career Planning Information**

General Student Information .....	2
Department Contact Guide.....	3
Graduation Requirements .....	4
Information for Planning ... ..	5
Global Education Achievement Certificate.....	6
Dual Credit.....	7

#### **Course Information**

Agriscience .....	8
Apprenticeship .....	10
Art .....	12
Business & Marketing .....	18
English .....	22
Family and Consumer Science .....	29
Global Language .....	35
International Baccalaureate Program .....	46
Mathematics .....	50
Music .....	57
Physical Education & Health .....	61
Science .....	66
Social Studies .....	72
Technology and Engineering Education .....	78
Project Lead The Way (PLTW).....	87

In an effort to conserve paper, we acknowledge that the print in this booklet is small. Please feel free to access the entire document at our website:

<http://www.wausauschools.org/east> to view an enlarged version.



## GENERAL STUDENT INFORMATION 2022-2023

The Wausau East high School Course Description Book has been prepared to assist each student in the planning of his or her course of study while attending high school. This booklet is a comprehensive list of courses offered at East High, as well as information about graduation requirements, admission standards for both the University of Wisconsin system and Northcentral Technical College, and provides registration guidelines for next year.

Although parents, counselors and teachers all play an important role in planning a course of study, primary responsibility rests with the student in determining educational and career goals for the future. As you select courses, take into consideration your career goals, learning styles, and interests you may have or wish to explore. **Students should select courses very carefully! Many administrative decisions such as budgeting, class sizes, and teacher assignments are based on student enrollment and the classes students choose to take.**

### Registration Procedures

Parents of eighth grade students planning to attend East High School are invited to attend the **Eighth Grade Parent Open House on February 3rd, 2022**. More information and a code will be sent to parents at a later date. This will be your chance to ask questions, speak to department chairs, and hear about all of the exciting programs and opportunities available at East!

Please note the following as you prepare for registration:

Students must register for at least six (6) one-half (.5) credit courses, in addition to physical education (until physical education requirements are met) each semester. Before selecting a course, check the course description to make sure it fits your needs, interests, and abilities. Also check to see that you have completed the prerequisite coursework. Teacher approval is required for some courses.

#### **Check carefully!**

After all of the student's course requests are submitted, a detailed and complex high school schedule is developed and instructors are assigned. The courses you select are actually reserved for you and you are expected to take them. **Schedule changes will only be made if one or more of the following criteria are met, so select your courses extremely carefully!!!**

- ☐ Requested change by teacher
- ☐ Failure to meet course prerequisite
- ☐ Direct conflict causing student to have less than 6 classes per semester
- ☐ Change needed to fulfill graduation/college requirement

Students who wish to drop a class after the second week of the semester will be assigned a grade which indicates whether the student was withdrawn passing (W/P) or withdrawn failing (W/F) the course at the time of the drop. W/F grades are calculated into semester GPA, however, W/P grades are not. Both W/F and W/P grades are recorded on the student's transcript.

**Please remember that once school starts, student schedules will rarely be modified. Only instructor initiated additions or drops will be accepted and must be approved by the instructor, counselor, and parent/guardian. The Wausau East Administration reserves the right to make any and all final decisions regarding course additions, drops, or changes.**

Last, but certainly not least, know the graduation requirements and plan ahead! Parents and students are encouraged to utilize the Career Center. Der Lo the Career Center Coordinator, can assist students in linking interests and abilities to available careers and typical college majors associated with those careers. Students are also encouraged to contact their counselor with any questions they may have regarding career and/or post-secondary educational planning.



## DEPARTMENT CONTACT GUIDE FOR QUESTIONS

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

Department		Name	Phone	Ext.	E-Mail
<b>Programming</b>		Deb Foster, Associate Principal	261-0654	23654	dfoster@wausauschools.org
<b>Counseling</b>					
<b>Students</b>	<b>A-F</b>	John Boulanger, Dept. Chair	261-0661	23661	jboulngr@wausauschools.org
	<b>G-L</b>	Jason Beal	261-0664	23664	jbeal@wausauschools.org
	<b>M-Si</b>	Manee Vongphakdy	261-0666	23667	myangvongphakdy@wausauschools.org
	<b>Sj-Z</b>	Katie Gilles	261-0663	23663	kgilles@wausauschools.org
<b>Career Center</b>		Cathy Gauger	261-0657	23657	cgauger@wausauschools.org
<b>Department Chairs: Please dial 261-0650 followed by their 5-digit extension.</b>					
<b>Agriscience</b>		Joe Staszak	261-0650	23253	jstaszak@wausauschools.org
<b>Apprenticeships</b>		Missy Cayley	261-0662	23662	mcayley@wausauschools.org
<b>Art</b>		Joel Pataconi	261-0650	23101	jpatacon@wausauschools.org
<b>Business &amp; Marketing</b>		Trevor Knight	261-0650	23110	tknight@wausauschools.org
<b>English</b>		Jamie Woller	261-0650	23153	jwoller@wausauschools.org
<b>EL</b>		Seth Clendenning	261-0650	23312	sclenden@wausauschools.org
<b>FACS</b>		Haley Abel	261-0650	23156	habel@wausauschools.org
<b>Global Language</b>		Jody Krieg	261-0650	23168	jkrieg@wausauschools.org
<b>IB</b>		Darlene Beattie	261-0650	23248	dbeattie@wausauschools.org
<b>Math</b>		Doris Martin	261-0650	23195	dmartin@wausauschools.org
<b>Music</b>		Kirsten Hornby	261-0650	23204	kihornby@wausauschools.org
<b>Phy Ed.</b>		Dina Rasmussen- Spear	261-0650	23209	drasmuss@wausauschools.org
<b>Science</b>		Dave Coenen	261-0650	23246	dcoenen@wausauschools.org
<b>Social Studies</b>		Christy Powell	261-0650	23279	cpowell@wausauschools.org
<b>Special Ed</b>		Phil Sturm	261-0650	23126	psturm@wausauschools.org
<b>Tech. Ed.</b>		Mark Poppe	261-0650	23292	mpoppe@wausauschools.org

*The Wausau School District does not discriminate against individuals on the basis of sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability. Federal law prohibits discrimination in education and employment on the basis of age, race, color, national origin, sex, religion, or disability.*



## WAUSAU EAST GRADUATION REQUIREMENTS

As you prepare to register for courses for the 2022-2023 School Year, now would be an excellent time to review past and future goals. How do classes you have taken or will take next year "fit" your plans? Please use this sheet as a planning guide. **Students will need 23 credits to graduate.**

<u>Subject</u>	<u>East Requirements</u>
	<ul style="list-style-type: none"> <li>✓ 23 Total Credits</li> <li>✓ Successful completion of the following subject and credit requirements:</li> </ul>
<b>Physical Education</b>	<u>1.5 Credits</u> <input type="checkbox"/> PE I <input type="checkbox"/> 2 Semesters Elective PE
<b>Health</b>	<u>.5 Credit</u> <input type="checkbox"/> Health
<b>English</b>	<u>4 Credits</u> <input type="checkbox"/> English 9 or English 9 Accelerated (1 cr.) <input type="checkbox"/> American Studies and Composition or Pre IB Composition (1cr.) <input type="checkbox"/> (.5) Literature/(.5) Composition <input type="checkbox"/> Electives (1 cr.)
<b>Social Studies</b>	<u>3.5 Credits</u> <input type="checkbox"/> US History I (1 cr.) <input type="checkbox"/> US History II (1 cr.) <input type="checkbox"/> World History or History IB I (1 cr.) <input type="checkbox"/> Elective (.5 cr.)
<b>Science</b>	<u>3 Credits</u> <input type="checkbox"/> Biology <input type="checkbox"/> Electives (2 cr.)
<b>Mathematics</b>	<u>3 Credits</u> <input type="checkbox"/> Classes in the appropriate math level
<b>Financial Literacy</b>	<u>.5 Credits</u> <input type="checkbox"/> Personal Financial Management, Economics, or Financial Literacy
<b>Electives</b>	<b>7 Credits</b>
<b>Total Credits</b>	<b>23 Credits</b>

<u>Subject</u>	<u>Entrance Requirements for Most University of Wisconsin Schools*</u>
	<ul style="list-style-type: none"> <li>✓ Rank in the top 25-50% of class</li> <li>✓ Successful completion of the following subjects:</li> </ul>
<b>Global Language</b>	<u>Recommended:</u> <input type="checkbox"/> 2 years of a single Language (UW-Madison REQUIRE 2 years of a single language for entrance) <input type="checkbox"/> Please verify the entrance requirements for the school(s) you are interested in attending.
<b>English</b>	<u>4 Credits</u> <input type="checkbox"/> Literature <input type="checkbox"/> Composition <input type="checkbox"/> Other Electives that meet college preparatory expectations
<b>Social Studies</b>	<u>3 Credits</u> <input type="checkbox"/> US History I <input type="checkbox"/> US History II <input type="checkbox"/> World History
<b>Natural Sciences</b>	At least <u>3 Credits</u> including: <input type="checkbox"/> Integrated Science <input type="checkbox"/> Biology <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics
<b>Mathematics</b>	<u>3 Credits</u> <input type="checkbox"/> Algebra 1 <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II <input type="checkbox"/> Check specific programs/schools for additional requirements.
<b>Electives</b>	<b>4 Credits</b>
<b>Total Credits</b>	<b>17 Credits</b>

**\*\*Please verify admission requirements with the specific school of your choice. \*\***



## INFORMATION YOU NEED TO KNOW WHEN PLANNING YOUR EAST EDUCATION

### East Graduation Requirements

The responsibility for completing all graduation requirements is that of the student. While the teachers and counselors will assist the student in planning their program, they are not expected to relieve the student of this responsibility.

These credit requirements include certain required courses, which are outlined on page 4. Wausau East High School graduation requirements are not college admission requirements. Specific requirements can be found in each college handbook and/or web page. Please see your counselor for more information.

### Preparation for Universities & Four-Year Colleges

General university/college requirements that may be necessary for admission are outlined on page 5. The Counseling Department can help you identify what extra courses might be helpful if you know what career area you wish to pursue or which college or university you hope to attend. Students are encouraged to carefully plan their high school program in order to meet their goals.

Students preparing for college must acquire a minimum of thirteen (13) credits from the academic areas (English, Math, Science, Social Studies), plus four credits in subjects you choose (foreign language, art, music, or computer science).

**Fine Arts:** Many Universities and Four-Year Colleges accept credit in music and the visual arts towards entrance requirements. Some institutions have a "fine arts" requirement for admission.

**Critical Skills:** Keyboarding, Computer skills, and other electives are helpful in a student's success at college. Some institutions will accept vocational classes towards student's entrance requirements.

**Related Experience:** Extra-curricular participation, community service and experiences that lend themselves to specific career preparation are helpful to the student and in the admission process.

In addition to required courses, students applying to the University of Wisconsin System will need to take the ACT test (preferred) or SAT (accepted) as part of the admission process. **(Please note that some universities may require the ACT + writing.)**

### Wisconsin Technical College System Requirements

Admission requirements vary from program to program. Generally, they include a minimum of high school graduation, GED, or the ability to benefit, as determined by

standardized tests. The Counseling Department can help you identify additional courses you may need for a specific program.

Please check the college catalog to insure that you are meeting specific requirements of the institution as well as the critical skills in Keyboarding, Computer Skills, Fine Arts, Technology and other academic or vocational electives.

Advanced Standing and/or Dual credits are available through Northcentral Technical College in Wausau. See specific course descriptions.

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

The Start College Now and Early College Credit program allows students in good academic standing to attend post-secondary schools to take courses beyond the scope and sequence offered at the high school. If the course taken is approved by the School Board, and is not comparable to a course offered in the District, the student will receive both high school and post-secondary credit for a successfully completed course. Students and/or their parents are responsible for transportation between school and the college. To qualify for these programs a student must:

1. Be in good academic standing and have no record of disciplinary problems to attend UW Stevens Point – Wausau or Northcentral Technical College (NTC).
2. See their counselor for all needed forms and details.
3. Return all forms to their counselors no later than March 1, for a course to be taken in the Fall Semester, or October 1 for a course to be taken in the Spring Semester.

### Academic and Career Planning (ACP)

Academic and Career Planning or ACP is intended to equip students and their families with the tools necessary to make more informed choices about post-secondary education and training as it leads to careers.

The Wausau East Counseling Department will be using the Xello portfolios during the Academic and Career Planning Conferences with all students throughout high school.

Topics to be discussed include:

- Transcripts
- College and Career Plans
- Graduation Requirements
- Your student's Xello portfolio
- Course Selections for 11<sup>th</sup> and 12<sup>th</sup> grade
- Any questions and concerns







Wausau East, through the Wisconsin Department of Public Instruction, offers students the ability to earn The Wisconsin Global Education Achievement Certificate.

This certificate supports student literacy as defined by the Common Core Standards and provides a pathway for 21<sup>st</sup> 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, translate their ideas into appropriate actions to improve conditions (<http://cal.dpi.wi.gov/files/cal/pdf/book-globalcompetence.pdf>).

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, hosting exchange students, direct engagement with non-native speakers, International Club, Language Immersion Programs, International Fairs, etc.
Community Service	20 hrs. 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 found in the counseling office or can be obtained from a Global Language teacher.



## **DUAL CREDIT**

Dual credit provides high school students the opportunity to earn both high school and college credit by taking an approved college-level course at the high school during the traditional school day. Northcentral Technical College (NTC) and district high schools partner to offer college level courses to high school juniors and seniors through an annual written articulation agreement. High school students are enrolled in an associate degree or technical diploma level course taught by a dual credit certified high school instructor.

**High school students are earning college credit and saving money in college tuition with NTC's Dual Credit. A 3-credit course saves nearly \$400 in tuition and can be transferred to NTC and other colleges. Dual Credit courses currently being offered at Wausau East are:**

### **AGRICULTURE**

Vet Science

### **BUSINESS**

Accounting II

Advanced Marketing

Entrepreneurship & Management

Personal Financial Management

Microsoft Office

### **COMPUTER SCIENCE**

Computer Science (WEB)

Computer Science (Interm Programming)

### **EARLY CHILDHOOD EDUCATION**

Child Development

Careers with Kids/ACCT

### **EDUCATION & TRAINING**

Civil Engineering & Arch *at Wausau West*

### **GENERAL EDUCATION**

Advanced Math

Intermediate Algebra

### **GRAPHIC COMMUNICATIONS**

Digital Photography

Graphic Communications II

Graphic Communications III

### **HEALTH SCIENCE**

Medical Terminology

### **HOSPITALITY SERVICES**

Foods III

### **MANUFACTURING**

Introduction to Welding

Metals II (Machine Tool Manufacturing)

Woods II (Furniture Manufacturing)

### **TRANSPORTATION**

Occupational Mechanics I

Occupational Mechanics II

### **VIDEO PRODUCTION**

Lumberjack Productions




## **AGRISCIENCE**

**Do You...**like hands on learning; want to earn free college credit; have an interest in working with animals, plants, or the outdoors; enjoy working outdoors; enjoy hunting and fishing?

### **TODAY'S AGRISCIENCE-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	LENGTH	YEAR TAKEN	
Introduction to Agriscience	Semester or Year	9-12	
Conservation	Semester 1 or 2	9-12	
Vet Science	Semester 1 or 2	10-12	
Advanced Conservation	Semester 1	10-12	
YOUTH APPRENTICESHIP PROGRAM			
Agriculture, Food & Natural Resources (AFNR)	1 or 2 Years	11-12	

### **Course Choices**

#### **INTRODUCTION TO AGRISCIENCE**

<b>Course # 110021/210021</b>	<b>Credit: .50</b>	<b>Length : Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$5.00</b>

**Content:** Are you interested in animals, plants, or the outdoors? Do you enjoy hands-on experiments? If so this class is for you! 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. Units will include: **Semester 1: Exploring Ag, Plants, Large Animals, and Natural Resources. Semester 2: Biotechnology, Food Science/Marketing, Small Animals, and Careers in Ag.**



## CONSERVATION

<b>Course # 110041/210041</b>	<b>Credit: .50</b>	<b>Length : Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$5.00</b>

**Content:** 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, wood duck nesting studies, 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.


## ADVANCED CONSERVATION

<b>Course # 118081</b>	<b>Credit: .50</b>	<b>Length : Semester 1</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$5.00</b>

**Content:** 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 with natural resources and the DNR, take this class. Learn hands-on from real foresters and DNR officials. Activities will include: running a saw mill, building and putting up wood duck houses real deer processing, land zoning/descriptions, working with foresters at active logging sites, 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.

## VET SCIENCE

<b>Course # 110121/210121</b>	<b>Credit: .50</b>	<b>Length : Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$5.00</b>
		

**Content:** 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, working with live animals in school, animal behavior, field trips with hands on animal labs, and learning basic veterinary procedures.

**Note:** NTC will grant dual credit to junior and senior students successfully completing the course. Sophomore students can receive credit by earning an A in the course. This course is offered for 3 NTC college level credits for free!!! See page 5.

NTC Equivalent Class: Introduction to Animal/Dairy Science #10-091-104, (3 credit)
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# Youth Apprenticeship (YA)

Do you want exposure to new skills? Do you want to learn about a potential career while working a paid position and earning high school credit? Wausau East High School offers students a unique opportunity to participate in one of eleven Youth Apprenticeship programs in the following career paths/clusters:

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

One or two-year Youth Apprenticeship programs (taken during junior and senior years) combine academic instruction, technical instruction and paid on-the-job training with an employer. Students can earn high school credit in addition to 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.





To be eligible for [Youth Apprenticeship](#), students must display a genuine interest in one of the occupational areas listed above. Students need to register for related coursework during their sophomore/junior year, be successfully meeting high school graduation requirements, maintain a minimum 2.5 GPA and have a satisfactory discipline and attendance record. Students with a GPA of 2.0-2.49 may be accepted with instructor approval. The Youth Apprenticeship program can be competitive, students must be hired by participating employers and complete all requirements. **Contact Mrs. Cayley ([mcayley@wausauschools.org](mailto:mcayley@wausauschools.org)), YA Coordinator, for more information.**



<b>Career Paths/Career Cluster</b>	<b>Description</b>	<b>WEHS Instructor</b>
Agriculture, Food and Natural Resources	Careers involve working with plants, animals and the environment.	Joe Staszak
Architecture and Construction	Careers include designing, building homes and other structures. OSHA and first training is required.	TBA
Arts, A/V Technology and Communication	Careers involve creative tasks such as writing, graphic arts, or performance.	Liz Kysely
Finance	Careers involve working with insurance, banking and managing money.	Trevor Knight
Health Science	Careers involve helping people and animals with the medical care they need.	Missy Cayley
Hospitality/Lodging/Tourism	Careers involve providing people with food, lodging and related services.	Trevor Knight Haley Abel Macey Staab Nicole Polka
Information Technology	Careers involve working with computer hardware, software or network systems.	Liz Kysely
Manufacturing	Careers involve production, maintenance and assembly of products.	TBA
Marketing	Careers involve creating and selling products and services.	Trevor Knight
Science, Technology, Engineering & Math	Careers involve solving problems through research and design.	Liz Kysely
Transportation, Distribution and Logistics	Careers involve moving people and products from one place to another.	Mark Poppe



## ART

COURSE TITLES	LENGTH	YEAR TAKEN	
Drawing 1	Semester	9-12	      
Art & Design	Semester	9-12	
Architecture Drawing	Semester	9-12	
Comic Arts	Semester	9-12	
Sculpture 1,2,3	Semester	9-12	
Painting 1,2,3	Semester	9-12	
Ceramics 1,2,3	Semester	9-12	
Drawing 2,3	Semester	9-12	
STUDIO ART/EAST PRE-IB ART	Year	11-12	
IB (INTERNATIONAL BACCALAUREATE) ART	Year	12	

### Art Is Essential

Arts and communications are essential parts of our modern society. People in these careers share emotions, ideas, information, and innovation. They are creative people who enjoy sharing their skills with others. The arts include careers in film, theatre, television, radio, dance, music, and visual arts. Nearly all careers in the arts require special skills and training. Anyone entering the arts must have a strong desire to acquire technical skills, great determination, and the ability to withstand disappointment and rejection. People in the arts need to be self-disciplined, creative, and able to express themselves through their art, whatever it may be.

### **Want a job? Take Art.**

- ☐ 2.8 million Americans work in the Visual Arts Industry.
- ☐ The creative sector will be worth \$6.1 trillion internationally in less than 15 years.
- ☐ More people are employed in the Visual Arts than in all of the performing and sport industries combined.

View all courses online at <http://bit.ly/eastartdept>



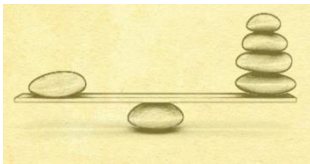
## 5 Reasons to Take Art

You don't have to be "good" at art to take art. Wausau East Art students learn practical strategies to improve their art-making skills, but there are more important reasons to take art. Art teaches qualities and skills that are desirable in the workforce and essential in today's world.



### Art communicates.

Art was the original form of communication. The modern world is driven by technology, which has made communicating with visuals a necessity again. Art teaches visual literacy: the ability to create images as well as interpret and make meaning from visual information. (Learning in a Visual Age, 2:03). Art teaches you how to "read" an image and discuss your interpretations and judgement with others. It removes language barriers and provides the opportunity to send a universal message. It throws the doors for collaboration wide-open.



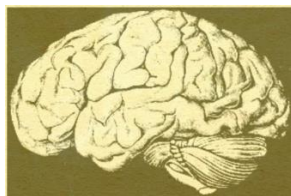
### Art balances.

Art can balance your day and spirit. It provides a break from other school subjects and life stressors. It restores your energy and focus. This is not because art is an easy class, but because it allows you to turn on different parts of your brain. Students can often "escape" into their project and mind to completely lose track of time. The art room is also an environment that supports exploration, experimentation, and failure.



### Art expresses.

Leave your mark. Be seen. Be heard. Be you. You have a unique voice. We can help you share it in a unique way. You'll have a choice in the work you make. Our curriculum is designed from state and national art standards, but is tailored for our students. All students are given projects or problems, but they develop their own unique solutions. Finished works reflect each student's individual voice and personal interests. The more art classes you take; the more choice and voice you receive.



### Art makes you think.

Art makes you think more critically and creatively. Most of this thinking is learned through hands-on making. You'll learn to examine things more closely and develop multiple ways of showing your ideas. You'll begin to envision an idea in its completed state and visualize the steps of how you'll get there. When things don't go as planned, you'll learn strategies to persist and find a solution to your problem. Like an artist, you'll record and reflect on your work process in a sketchbook or visual journal.



### Art connects.

Art connects us to different cultures, places, and times. Art is also connected to all the other subjects you're studying. Artists are students of life. They use history, science, language, & math to show the world their unique perspective & vision. Art even connects to most careers. Every product we buy passes through the mind or hands of an artist. Lastly, art connects you to yourself and others.



## DRAWING 1

<b>Course # 112181/212181</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** Students develop their ability to draw what they see, improve their hand – mine connection, and engage in creative thinking. Students will learn practical drawing strategies that will improve their skills while using a variety of media. Course work will focus on still life, nature, human form, and architectural structures. The history of drawing will be viewed from a variety of resource materials. Students will document ideas, processes, problems, and solutions in a visual journal.

Upon completion of the Drawing I semester course students may take any level I course.

## ART & DESIGN

<b>Course # 112061/212061</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** Students learn and apply the elements of art and principles of design through a variety of projects using cut paper, collage, lettering, painting, printmaking, and digital applications. Emphasis will be on design rather than realistic drawing. Students will examine popular culture and how design impacts our world. Students will document ideas, processes, problems, and solutions in a visual journal. Coursework is beneficial to students interested in careers in web, product, fashion, and graphic design.

Upon completion of the Art & Design semester course students may take any level I course except Drawing 2 & 3.

## ARCHITECTURE DRAWING

<b>Course # 112201/212201</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** This course continues study of the art principles of space, scale, & perspective learned in Foundation classes. Students learn to draw interior spaces and exterior structures. Students also design floor plans, construct models, and utilize 3-D modeling apps. A historical overview of architecture and application of drawing with design skills will develop a deeper understanding of structures. Students will document ideas, processes, problems, and solutions in a visual journal. Course work is beneficial to students interested in careers in architecture, engineering, interior design, and industrial design



## COMIC ARTS

<b>Course # 112581/212581</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** This course connects literature with the visual arts. Students will use comics as a format for expressing opinions, exploring people, cultures, politics, ideas, conflicts, dreams, and tragedies. Coursework will include a history of comics, writing storylines, designing characters, developing drawing styles, and establishing storyboards. Students will read comics, graphic novels, and contemporary literature for inspiration. Students will document ideas, processes, problems, and solution in a visual journal. Course work is beneficial to students interested in careers in animation and illustration.

## SCULPTURE 1

<b>Course # 112521/212521</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** Sculpture 1 students will learn and apply the following basic sculpting techniques: additive, subtractive, casting, carving, and construction. Students will sculpt with clay, plaster, wood, wire, and found objects. Coursework will focus on the human form and natural environment, as well as cultural and historical contexts. Students will document ideas, processes, problems, and solution in a visual journal.

## SCULPTURE 2 & 3

<b>Course # 112541/212541</b> <b>Course # 112561/212561</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Sculpture I</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** Students will continue to explore and develop techniques and processes learned in Sculpture 1. Students choose which sculpting medium, style, and subject matter to explore in-depth. Students will also learn to use a wire-feed welder to construct larger outdoor works. Emphasis will be on developing student's personal style, completing larger scale works, and working more independently. Study will focus on the role of sculpture in society, application of techniques, and a completed body of artwork. Students will document ideas, processes, problems, and solutions in a visual journal.

## PAINTING I

<b>Course # 112341/212341</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** Students will complete works using watercolors, acrylics, and oils. Students will paint on a variety of surfaces (paper, hard board, canvas board, and canvas). Students learn fundamental techniques and how to "see like a painter." Coursework will focus on composition, value (light & shadow), and color (mixing, layering, & schemes). The history of painting will be viewed from a variety of resource materials. Students will document ideas, processes, problems, and solutions in a visual journal.



## PAINTING 2 & 3

<b>Course # 112361/212361</b> <b>Course # 112381/212381</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Painting I</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** Students will continue to explore and develop techniques and processes learned in Painting 1. Students choose which paint medium, style, and subject matter to explore in-depth. Emphasis will be on developing student's personal style, completing larger scale works, and working more independently. Coursework will focus on the role of painting in society, application of techniques, and a completed body of artwork. Students will document ideas, processes, problems, and solutions in a visual journal.

## CERAMICS 1

<b>Course # 112401/212401</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$15.00 per Semester</b>

**Content:** This class is designed for students who have an interest in working with clay. Students will make functional and sculptural works with both hand-built and wheel-thrown methods. Students learn fundamental techniques with a focus on executing good design, forms, and craftsmanship. In addition, students will also learn about glazing and kiln firing. Students will thoroughly document ideas, processes, problems, and solution in a visual journal.

## CERAMICS 2 & 3

<b>Course # 112421/212421</b> <b>Course # 112441/212441</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Ceramics I</b>	<b>Fee: \$15.00 per Semester</b>

**Content:** Students will continue to develop and explore hand-built and wheel-thrown methods. Coursework will include more advanced construction techniques, glazing, firing alternatives, and mold-making processes. Emphasis will be on developing student's personal style and working more independently. Students will thoroughly document ideas, processes, problems, and solutions in a visual journal.

## DRAWING 2 & 3

<b>Course # 112591/212591</b> <b>Course # 112601/212601</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Drawing I</b>	<b>Fee: \$11.00 per Semester</b>

**Content:** This course is for students that would like to continue exploring a drawing focus that was learned in Drawing I class. Drawing 2 & 3 presents new materials as well as an expansion of imaginative and conceptual ideas. Students will work more independently and complete larger scale pieces from still life, photographs, and electronic images. Students will also draw outside of class weekly to enhance drawing skills. Students will document ideas, processes, problems, and solutions in a visual journal.



## STUDIO ART/EAST PRE-IB ART

<b>Course # 112041/212041</b>	<b>Credit: 1.00</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of 3 art classes</b>	<b>Fee: \$22.00 per Year</b>

**Content:** This year long course is designed for students to choose their own path of study in a medium of their choice. Students select a 2D or 3D focus, building on techniques and concepts they've acquired in their foundation coursework. Students will learn how to develop original ideas using theme topics and artist research. Students will thoroughly document ideas, processes, problems, and solutions in a visual journal and are required to create and exhibit their completed artworks at CAFÉ.

Students need to complete 3 or more art classes before taking Studio Art. Students who plan on taking IB Art HL should take Studio Art as a Pre-IB prep course their Junior year.

## IB (INTERNATIONAL BACCALAUREATE) ART

<b>Course # 112241/212241</b>	<b>Credit: 1.00</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Completion of 3 art classes or Studio Art. Must be a Senior.</b>	<b>Fee: \$22.00 per Year</b>

**Content:** This is an advanced and rigorous course for highly motivated students who plan on studying the visual arts after high school. Students should have above average technical skill, the ability to work independently, and a true passion for art.

### Requirements that must be met to receive credit:

1. Complete 8-11 original artworks (HL); 5-7 original artworks (SL)
2. Develop & complete a comprehensive visual journal documenting artworks
3. Curate an exhibit of their artwork and write a curatorial rationale and exhibition texts
4. Comparative Study: written analysis & comparison of 2-3 artists/artworks (SL)

This course will help prepare students pursuing an art degree or career. Students who complete the external examination may receive advanced university standing or may earn university credit. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.

Students who plan on taking IB Art HL should take Studio Art as a Prep-IB prep course their Junior year



## **BUSINESS & MARKETING**

COURSE TITLES	OFFERED	YEAR TAKEN	
Accounting I	Semester 1	10-12	
Accounting II	Semester 2	10-12	
Personal Financial Management (Blended Delivery)	Semester	10-12	
Introduction to Marketing	Semester 1	9-12	
Sports and Event Marketing	Semester 2	9-12	
Advanced Marketing	Year	10-12	
Entrepreneurship & Management	Semester	10-12	
Microsoft Office	Semester 1	9-12	
Marketing Internship	Year	11-12	

**Do You . . .** want to earn free college credits; have an entrepreneurial mind; enjoy leadership roles and making decisions; have clear verbal and written communication skills; enjoy working as part of a team; have the ability to work under pressure; have good problem-solving skills?

**If you have answered “yes” to any of these questions, this department DOES have courses for you!**

## **CAREER OPPORTUNITIES**

**Earn transferable college credits in high school through Marketing and Business courses – Entrepreneurship & Management, Accounting II, Personal Financial Management, Microsoft Office, and Advanced Marketing are equivalent to 16 transferable credits costing at least \$3600 at most Wisconsin University System Schools**

**Education and specialized training in the fields of Marketing and Business are more important than ever. Technical college or university education is essential for higher level jobs. Education will not end with employment; expect to expand your knowledge and skills base for years to come! The Advanced Marketing and Internship course will open doors for you!**

**Business and Marketing courses will provide skills and opportunities that will benefit students in life, school and in general as well as with any career the student pursues.**




## ACCOUNTING I

<b>Course # 114001</b>	<b>Credit: .50</b>	<b>Length : Semester 1</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** Planning a career in the fields of business, marketing, or finance? Accounting is listed as one of the most sought after and stable career fields. 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. The ability to accurately crunch numbers is a unique skill set in high demand.


## ACCOUNTING II

<b>Course # 214011</b>	<b>Credit: .50</b>	<b>Length : Semester 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Accounting I</b>	<b>Fee: None</b>
		

**Content: Want to learn more about accounting and earn 4 college credits?** Adding to the concept learned in Accounting I, this course begins recording of payroll and taxes, recording notes and interest, an exposure to utilizing computerized accounting software. Strongly recommended for anyone planning to enroll in college/university or technical school as a business major/minor.

**4 NTC Dual Credits possible.**

## PERSONAL FINANCIAL MANAGEMENT (BLENDED DELIVERY)

<b>Course # 114241/214241</b>	<b>Credit: .50</b>	<b>Length : Semester</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** You can earn 3 college credits upon successful completion of this course! Would you like to retire a millionaire? You can with the right tools and a financial plan. Building healthy financial habits is essential for teens to learn before they venture out into the “real world.” Development of financial literacy skills and an understanding of financial principles will provide the basis for responsible citizenship and career success. This course will teach students how to save, budget, and invest their money. It also prepares students to function effectively as consumers, savers, investors, entrepreneurs, and active citizens. The topics included in this course are: careers and decision making, budgeting, credit, saving, investing, insurance, taxes, consumer awareness and more. The course is offered using a blended delivery method. Students will attend class 1 day each week and complete the remainder of the curriculum in an online environment. Students today will need to begin to learn in an online environment since most post-secondary institutions include online learning as a requirement. Students will learn about the nuances of online learning, self-discipline, time management strategies, and learning techniques to be successful in an online class.

**3 NTC Dual Credits possible.**



## INTRODUCTION TO MARKETING

<b>Course # 114281</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>


**Content:** 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 Advanced Marketing. This course is a pre-requisite to both Sports & Event Marketing and Advanced Marketing.

## SPORTS & EVENT MARKETING

<b>Course # 214291</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Intro to Marketing</b>	<b>Fee: None</b>

**Content:** 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 but highly encouraged.

## ADVANCED MARKETING


<b>Course # 114301/214301</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Intro to Marketing</b>	<b>Fee: None</b>
		

**Content:** You can earn 3 college business credits upon successful completion of Advanced Marketing! This course 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 group instruction with emphasis on team work through small group projects. Students are encouraged to combine this course with Marketing Internship and participation in DECA. 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. Dual credit is offered through NTC.

**3 NTC Dual Credits possible.**




## ENTREPRENEURSHIP & MANAGEMENT

<b>Course # 114631/214631</b>	<b>Credit: .50</b>	<b>Length: Semester</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** You can earn 3 college business credits upon successful completion of Entrepreneurship and Management. 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 world of business ownership and the important characteristics of an entrepreneur's work ethic. The course includes a combination of classroom lecture, computer work, independent and group work. There will be projects, including a business plan, including product development and a sales/marketing plan; Students are encouraged to join our DECA student organization. Students will participate in the operation of the "Jack Shack" our school store. Students will use Microsoft office applications extensively throughout the course. MOS certification exams offered  
**3 NTC Dual Credits possible.**

## MICROSOFT OFFICE

<b>Course # 114231</b>	<b>Credit: .50</b>	<b>Length : Semester 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** You can earn 3 college business credits upon successful completion of Microsoft Office. This class is extremely helpful for ALL students! Microsoft Office proficiency is one of the top five most commonly required skills posted in online 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 which is a huge benefit when searching for a job.  
**3 NTC Dual Credits possible.**

## MARKETING INTERNSHIP

<b>Course # 114271/214271</b>	<b>Credit: 1.0</b>	<b>Length : Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Individualized Program</b>	<b>Fee: None</b>

**Content:** Explore the business world through: supervised occupational experience, job shadow, mentorship, career exploration, job placement. Individualize your program (does not meet as a scheduled class). See Mr. Knight in the Business/Marketing Department for information. Students must be available outside school to work a total of 480 hours during the school year and summer. Leads to state of WI marketing skills certification.



## ENGLISH

Students are required to take four credits of English courses. Of these four credits, students must take .5 Composition and .5 Literature in grades 11-12. **All juniors must take a writing course (Real World Writing, Composition, Advanced Composition I, English IB I) first semester.**

COURSE TITLES	LENGTH	YEAR TAKEN
English 9	Year	9
English 9 Accelerated	Year	9
American Studies and Composition	Year	10
WE PRE-IB Composition	Year	10
Publications/Yearbook – general elective credit	Year	10-12
Literature Seminar	Semester 2	11-12
Real World Writing	Semester 1	11-12
Speech	Semester 2	11-12
Contemporary American Literature	Semester 1	12
Creative Writing	Semester 1 or 2	11-12
Film As Literature	Semester 1	11-12
Multi-Cultural Literature	Semester 2	11-12
Novels	Semester 1 or 2	11-12
World Literature	Semester 2	11-12
Composition	Semester 1	11-12
Advanced Composition I	Semester 1	11-12
Advanced Composition II	Semester 2	12
English IB I	Year	11
English IB II	Year	12

**Do You . . .**enjoy reading and writing? enjoy expressing your opinion? have clear verbal and written communication skills? enjoy persuading others? have a creative and imaginative personality? have good organizational skills? enjoy the fine arts? enjoy performing in plays and related performances?

**If you have answered “yes” to more than half of these questions, this department may have courses for you!**

**For greater understanding of your interests, see your guidance counselor to review your interest inventory results.**



## Career Opportunities

Strong reading and writing skills as well as the ability to verbally communicate clearly and effectively are the basics for success in high school and in post-secondary studies. Virtually every career choice today requires employees to have advanced communication skills. No matter the business - industry, education, medicine- your ability to read, interpret data, and communicate this knowledge are the keys to your success.

## Course Choices

**There will be a \$8.25 fee per year for each freshman and new sophomore and junior student to cover the cost of a vocabulary workbook. This book is used for all four years.**

### **ENGLISH 9**

<b>Course # 115161/215161</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** English 9 is a yearlong 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. English 9 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 ACCELERATED**

<b>Course # 115171/215171</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9</b>	<b>Prerequisite: Teacher Recommendation</b>	<b>Fee: \$2.00</b>

**Content:** English 9 Accelerated is a yearlong 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. English 9 Accelerated 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. **Parents should be aware that students are encouraged to buy several texts. Reading and writing will be conducted at an accelerated pace to best meet the needs of advanced language arts students.**



## AMERICAN STUDIES and COMPOSITION

<b>Course # 115511/215511</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10</b>	<b>Prerequisite: Teacher Recommendation</b>	<b>Fee: none</b>

**Content:** This year long course is designed to examine historical periods throughout American Literature and prepare tenth grade students for junior/senior level course work and college and career 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. All course curriculum has been developed in alignment with the Common Core Standards.

## WE PRE-IB COMPOSITION

<b>Course # 115311/215311</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10</b>	<b>Prerequisite: Teacher Recommendation</b>	<b>Fee: none</b>

**Content:** This course is designed for the student who has already displayed the ability to write and to read critically. Exploring the philosophies of several authors, this class focuses on developing the literary analysis skills needed for IB English and other junior/senior electives. In addition, this course covers the following types of writing: the research paper, the comparison/contrast essay, in class essay exams, and other informal, timed and un-timed writings. During the year, students also build their vocabulary and speaking skills preparing them for junior/senior IB classes. **Parents should be aware that students are encouraged to buy several texts.** All course curriculum has been developed in alignment with the Common Core Standards.

## PUBLICATIONS LAB/YEARBOOK

<b>Course # 115333/215333</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10 – 12</b>	<b>Prerequisite: Teacher Approval</b>	<b>Fee: none</b>

**Content:** The Publications Lab/Yearbook is designed to publish East's yearbook, the *WAHISCAN*, and to learn the skills necessary to do so. Students need to have above average writing ability and be exceptionally responsible about meeting deadlines. **Prospective students must interview with the adviser and be earning at least a 3.0 grade point average.** Enrollment will be limited to 25 students. **NOTE:** After successfully completing all assignments, a student will have earned one elective credit toward graduation. This course can be taken more than once, and should satisfy most college/university entrance requirements for general credit.



## LITERATURE SEMINAR

<b>Course # 215251</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11 – 12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This course is designed to acquaint the student with a wide variety of adolescent and adult contemporary literature along with non-fiction literature. The primary focus will be the enjoyment of reading, and the class will seek to improve comprehension and critical reading skills.

## REAL WORLD WRITING

<b>Course # 115141/215141</b>	<b>Credit: 1.0</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This course is designed for seniors who want to develop the written communication skills necessary for success *in the real world. This course is appropriate for students planning to enter the job market, the military, or technical college upon graduation.* Students will continue to improve their ability to produce writing that is clear, organized, grammatically correct, and purpose/result driven. Assignments will be completed in a variety of formats including print, video, and speeches. Assignments are directed toward the students' life and career interests and skill development and may include letters, resumes, interviews, emails, paragraphs, and presentations.

## SPEECH

<b>Course # 215141</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** Speech provides the study of and practice in the basic principles and techniques of effective oral communication. This course includes instruction in adapting speaking to different audiences and purposes. Students learn how to deliver planned as well as spontaneous speeches. In addition, they examine techniques for informing, demonstrating, and persuading audiences with words as well as techniques of speech communication.

## CONTEMPORARY AMERICAN LITERATURE

<b>Course # 115281</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 12</b>	<b>Prerequisite: None</b>	<b>Fee: \$2.00</b>

**Content:** This course covers American Literature from the 1950's to the present and will include short stories, drama, poetry, and novels. Discussion and written assignments will focus on analysis of the literature. Written assignments will include essay tests, shorter response, and literary analysis papers. Contemporary American Literature is recommended for readers of above average ability who plan on continuing their education after high school.



## CREATIVE WRITING

<b>Course # 115451/215451</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>


**Content:** Creative Writing is designed for juniors and seniors who desire to experiment in writing poetry, short stories, and plays. Through writing prompts and short assignments, writers will focus on the elements of imaginative writing. Class members analyze works of well-known fiction writers while improving their own work through peer-editing and instructor feedback. Students will develop a blog to publish their work and will submit work for publication.

## FILM AS LITERATURE

<b>Course # 115351</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This course is designed to enable students to become more critical viewers of film and be able to view film as a piece of literature. Students analyze feature films in terms of technical aspects (camera angles, cinematography, music, editing, special effects, etc.) and literary merit (juxtaposition, motif, characterization, symbolism, etc.). Emphasis is on class discussion and analysis.

## MULTI-CULTURAL LITERATURE

<b>Course # 215271</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$2.00</b>
		

**Content:** Multicultural Literature is a course designed for readers of above average reading ability. The course features a study of cultures and literature from minority and cultural sub groups as represented by students in our schools and may include Southeast Asian, Native American, African American, Hispanic, LGBTQ, or other under-represented groups, all with an historical, sociological, and literary perspective. Because many colleges and universities strongly encourage students to participate in diversity courses, Multicultural Literature is recommended for those planning to continue on to post-secondary studies.


## NOVELS

<b>Course # 115301/215301</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** 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 and will include the study of art, composition, and structure. 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.



## WORLD LITERATURE

<b>Course # 215431</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$2.00</b>
		

**Content:** This course surveys the literature, philosophy and historical background of world cultures including Sumerian, Greek, Chinese, Japanese and African, as well as European Romanticism and Realism. Students will read a variety of shorter prose, poetry, novels, and drama, often centered on the search for the meaning of life. Written work and discussion will focus on literary analysis, with written assignments of essay tests, shorter responses, comparison, and literary analysis. An individual outside book is an additional requirement for an A in the class.

## COMPOSITION

<b>Course # 115371</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11- 12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This is a one semester writing course designed for juniors and seniors needing to refine and strengthen their academic writing, focusing on different types of essays. This course will benefit students who need additional work in formal essay writing. Students who plan to attend college will also want to take Advanced Composition I and /or II before graduation

## ADVANCED COMPOSITION I

<b>Course # 115001</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11- 12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This is a one semester writing course designed for juniors and seniors who are confident with academic essay writing and want to begin to strengthen the writing skills needed for success in college. An A or B average from previous English classes is recommended.


## ADVANCED COMPOSITION II

<b>Course #215631</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Advanced Composition I</b>	<b>Fee: None</b>

**Content:** This is a one semester writing course designed to prepare college bound seniors for college level writing expectations. Students will write a variety of essays, read and analyze a non-fiction book, and deliver formal presentations. An A or B average in previous English courses and an independent work ethic is strongly recommended.




**ENGLISH IB I**

<b>Course #115121/215121</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11</b>	<b>Prerequisite: Students need to be ready for a challenging curriculum and/or consent of instructor</b>	<b>Fee: None</b>
		

**Content:** This is the first year of a two-year course, offered under the auspices of the International Baccalaureate Organization. The course will concentrate on a study of world literature. Literary analysis is a major focus of the reading, writing, and speaking in the class. English IB students are expected to write analytical essays, sit for exams testing content and style, and speak analytically in daily discussions and oral presentations. Throughout the course, students compete with other IB students around the world on a series of rigorous assessments which may result in college credit and/or college course exemptions, depending on the college the student attends. A passing semester grade is required to progress from one semester to the next.



**ENGLISH IB II**

<b>Course #115131/215131</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Students need to be ready for a challenging curriculum and/or consent of instructor</b>	<b>Fee: None</b>
		

**Content:** This is the second year of a two-year course, offered under the auspices of the International Baccalaureate Organization. The course will concentrate on a study of world literature. Literary analysis is a major focus of the reading, writing and speaking in the class. English IB students are expected to write analytical essays, sit for exams testing content and style, and speak analytically in daily discussions and oral presentations. Throughout the course, students compete with other IB students around the world on a series of rigorous assessments which may result in college credit and/or college course exemptions, depending on the college the student attends. A passing semester grade is required to progress from one semester to the next.



## **FAMILY AND CONSUMER SCIENCE**

<b>Course Titles</b>	<b>Length</b>	<b>Year Taken</b>	
Financial Literacy	Semester 1 or 2	10-12	
Aspiring Educators & Internship	Year	12	
Foods I	Semester 1 or 2	9-12	
Foods II	Semester 1 or 2	9-12	
Foods III	Semester 1 or 2	10-12	
Food Science	Semester 1 or 2	9-12	
Health Occupations I	Semester 1	9-12	
Health Occupations II	Semester 2	10-12	
Family Relations	Semester 1 or 2	9-12	
Child Development	Semester 1 or 2	10-12	
Careers with Kids/ACCT	Semester 1 or 2	11-12	
Fashion & Interior Design	Semester 1 or 2	9-12	

The Family & Consumer Sciences Department has something to offer everyone! Our goal is to create hands-on-learning experiences that will allow students to develop teamwork, leadership skills, communication skills, and technology skills that enable them to become high-level critical thinkers in order to meet personal, family, career and community challenges they will face in their adult life. The world is diverse and so are our classes! We will prepare you to be successful in today's world!



## Career Opportunities:

What plans and goals do you have for the rest of your life? FCS Education can help you articulate and examine a wide variety of potential career opportunities, all while learning life-long skills needed to be successful at your job, with your family, with your finances and with your personal relationships!

Students who take FCS courses may have an interest in careers related to:

- Culinary arts, hospitality & tourism
- Education and training
- Food science and nutrition
- Health Sciences
- Health management & wellness
- Housing & interior design
- Human & child development
- Human services, family relations & social work
- Personal & family finances
- Textiles, fashion, apparel & merchandising

### Dual Credit

\*NTC = Dual Credit Possible. Contact Family and Consumer Science teachers for further information.



## COURSE CHOICES

### FINANCIAL LITERACY

<b>Course #117131/217131</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$5.00</b>

**Content:** Financial Literacy will help you figure out how to keep 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, dressing for the job, 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 designed to help students develop positive financial habits and create financial goals. **\*Course meets financial literacy requirements as set by WSD.**


### FOODS I

<b>Course #117111/217111</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$25.00</b>

**Content:** Academic Skills are put to use in this introductory course of Foods I. Students will observe the results of accurate measuring skills and kitchen math through cooking. Culinary skills, safety and sanitation in the kitchen, proper preparation and techniques of food are learned and put to use. Other topics discussed My Plate, nutrition and the importance of each food group, serving sizes, label reading, meal planning, and the proper use of tools in the kitchen. Food preparation is related with each topic of discussion. If you are interested in basic cooking needs Foods I is a great starting place.

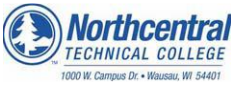


## FOODS II

<b>Course #117121/217121</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Foods I</b>	<b>Fee: \$25.00</b>
		

**Content:** Foods II is a course that provides students the opportunity to explore an in-depth approach to food and food preparation. Emphasis is placed on the study of cooking foods from different regions within the United States, as well as from different countries. Students explore various food traditions through hands-on experiences in the lab setting as well as through a cultural lens. Chopped competitions & the chili cook-off contest are also implemented in this course.

## FOODS III

<b>Course #117171/217171</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Foods I &amp; II</b>	<b>Fee: \$25.00</b>
		

**Content:** This course is for students passionate about food and their nutrition. There is a focus on the six major nutrients and how each is used in our body. The planning of well balanced meals and nutritional analysis of diets will be highlighted in this course. We will examine nutrition through hands-on learning experiences in the lab setting. We will adventure through possible career choices through projects and labs and continue to practice creating balanced meals while making them affordable and visually appealing to the eye.

NTC Equivalent Course: Nutrition #10-316-107 (2 credits)
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## FOOD SCIENCE

<b>Course #117191/217191</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Foods I</b>	<b>Fee: \$25.00</b>

**Content:** FOOD EXPERIMENTS! 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.

**\*Course can fulfill .5 credit toward high school graduation requirements as a non-lab science.**

**Course will not count as a lab science for college admission**



## ADAPTIVE FOODS

<b>Course #126041/226041</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Teacher Recommendation</b>	<b>Fee: None</b>

**Content:** The adaptive foods class is set up to provide the special needs students with hands-on cooking experiences. Activities include meal planning, reading recipes, food preparation, kitchen clean up and basic utensil usage. Activities are planned around all three meals.

## HEALTH OCCUPATIONS I

<b>Course #117181</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This course will provide students with an overview of the health care system and the 5 health care career pathways. Students will learn about job responsibilities, personal traits, attitudes, education and licensure of individuals working in the healthcare field. They will have the opportunity to work with professionals and become acquainted with a variety of trends and issues in today's healthcare environment through guest speakers and field trips. Students will focus on many hands on activities to give a realistic view of the health care systems.

## HEALTH OCCUPATIONS II

<b>Course # 217181</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Health Occ I</b>	<b>Fee: None</b>

**Content:** A significant number of people we are in contact with daily are part of the medical system. Whether they are patients, caregivers, or people behind the scenes of the medical system they make the medical world run smoothly. In the next century medical careers will be developing more and more rapidly with the change of technology. If you want job security, the medical field is the right place to go. Continuing to build off of the skills and concepts from Health Occupations I, students will start to focus on the body systems that careers focus on. Students will continue to work with professionals in the fields of study. This course provides students with specific knowledge of multiple career opportunities in the health system along with skills that medical professionals are looking for in future employees.


## FAMILY RELATIONS

<b>Course # 117081/217081</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$6.00</b>

**Content:** Family relations is a course that will explore life topics with a family lens. We will examine family structures, patterns and dynamics and how the family unit has evolved over time within our society. We will cover topics such as maintaining healthy relationships and setting goals for ourselves to achieve and contribute to our future community and family. Other topics covered include dating, prenatal development, labor, birth, grief and death. This course will enable students to recognize and understand challenging issues facing families today. In addition, students will complete a real-care baby simulation as part of the course.




## CHILD DEVELOPMENT

<b>Course # 117031/217031</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$10.00</b>
		

**Content:** Child Development; 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 where we will analyze social, cultural and economic influences on child development; summarize child development theories; analyze development of children age three through age eight, summarize the methods and designs of child development research, analyze the role of heredity and the environment and examine the role of brain development in early learning (ages three through eight). **Students who successfully complete this course may qualify for dual credit through Northcentral Technical College.**

NTC Equivalent Course: ECE Childhood Development #10-307-187 (3 credits) Department: Early Childhood Education

## CAREERS WITH KIDS/ACCT (EARLY CHILDHOOD SERVICES)

<b>Course # 117021/217021</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Must be 17 years of age</b>	<b>Fee: \$10.00</b>
		

**Content:** Have you considered a career working with children? Exploring social service, guidance and education careers. In Careers with Kids you will be introduced to a variety of careers with young children. You will gain knowledge of child development, early childhood education and develop skills in child care and guidance. You will also learn to plan and implement activities with children in a variety of community settings. In this semester course you will work hands on with early childhood students. You will explore the responsibilities of teaching and gain the skills necessary to work in a career with children. Upon successful completion of the course, you may earn the Wisconsin Department of Public Instruction Assistant Child Care Teacher Certification if you are 16 years of age. **Students who successfully complete this course may qualify for a dual credit through Northcentral Technical College.**

NTC Equivalent Course: Foundations of ECE #10-307-148, (3 Credits)

## FASHIONS AND INTERIOR DESIGN

<b>Course # 117091/217091</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Interest in Fashion &amp; Design</b>	<b>Fee: \$20.00</b>

**Content:** This course will cover three components: fashions, sewing and interior design. Students will focus on the history of fashion and fashion trends of today. The elements and principles of design carry over into fashion sketching and a fashion show. Students will learn about the different types of sewing tools and equipment. Students will have the opportunity to use the sewing machines and create sewing projects. Interior design has a focus on paint colors, types of houses, selecting different textiles and furniture, and designing your own living space.



**ASPIRING EDUCATORS & INTERNSHIP (classroom and worksite)**





<b>Course # 117151/217151 WS: # 117161/217161</b>	<b>Credit:1.0/Year Classroom 1.0/Year Work Experience/Internship</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite Child Development and Early Childhood Services, or instructor approval. Register for both classroom and work experience.</b>	<b>Fee: \$10.00</b>

**Content:** 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. FCCLA (Family Career and Community Leaders of America), a national student organization will be an integral part of this class.

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



## GLOBAL LANGUAGE

<u>Course Titles</u>	<u>Length</u>	<u>Year Taken</u>	
French I	Year	9-12	
French II	Year	9-12	
French III	Year	10-12	
French IV	Year	11-12	
French Pre IB	Year	10-12	
French IB I	Year	11-12	
French IB II	Year	11-12	
German I	Year	9-12	
German II	Year	9-12	
German III	Year	10-12	
German IV	Year	11-12	
German Pre IB	Year	10-12	
German IB I	Year	11-12	
German IB II	Year	11-12	
Spanish I	Year	9-12	
Spanish II	Year	9-12	
Spanish III	Year	10-12	
Spanish IV	Year	11-12	
Spanish Pre IB	Year	10-12	
Spanish IB I	Year	11-12	
Spanish IB II	Year	11-12	

### University Preparation

Global languages have the unique position of being able to offer retroactive credit and/or optional placement in university courses. **It is important to note that some universities require multiple consecutive years of foreign language as part of their admission criteria and some universities require foreign language as a graduation requirement. Please check with individual universities for admission and graduation requirements in regards to foreign language.** Students who take foreign language may also earn retroactive credit at the university level for the work they do in a high school. This retroactive credit is a unique feature to foreign language, and results are best achieved by continuing language instruction through senior year. A foreign language taken for a full year in middle school will be noted on a student's transcript. Students do not, however, receive a high school credit toward graduation credit for that year.

### POSSIBLE SEQUENCE

I	I	I	II	II	II
II	II	II	Pre-IB	III	III
III	III	Pre-IB	IB I	Pre-IB	IV
IV	Pre-IB	IB I	IB II	IB I	Pre-IB / IB I

**\*Individual circumstances/experience may impact course sequence**

**\*In order to earn the IB diploma, students must take IB I & IB II.**



## Global Education Achievement Certificate

Wausau East, through the Wisconsin Department of Public Instruction, offers students the ability to earn The Wisconsin Global Education Achievement Certificate.

This certificate supports student literacy as defined by the Common Core Standards and provides a pathway for 21<sup>st</sup> 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, translate their ideas into appropriate actions to improve conditions (<http://cal.dpi.wi.gov/files/cal/pdf/book-globalcompetence.pdf>).

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:**    (You must earn a B or better in all coursework)

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, hosting exchange students, direct engagement with non-native speakers, International Club, Language Immersion Programs, International Fairs, etc.
Community Service	20 hrs. 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 by the advisor (current teacher)

Global Scholar candidates must complete a checklist with their advisor. Information about the Global Education Achievement Certificate can be found on your global Language teacher's itsLearning course.



**All work must be completed during your high school years and by January of your senior year.**

**Do You . . .** like traveling or reading about other countries; enjoy learning about other cultures; desire to work with people from other countries; want to improve your English skills including writing; plan to attend a university or explore other post-secondary options; have a desire to pursue a career in business, law, medicine, public service, or education; relish meeting new people and communicating; want to improve your cross curricular skills?

**If you have answered “yes” to any of these questions, this department may have courses for you!**

### **Career Opportunities**


Today’s economy is a global economy. Local business and industry compete at an international level. Information and resources around the world are available with a push of a few computer keys. More and more people from around the world are traveling, working, and communicating with other people throughout the world. Careers requiring a foreign language are plentiful and are growing in number each day. Speaking another language will always be a positive addition to one’s career.

### **Course Choices**

**Workbook fees will not exceed the price listed and are, many times less.**


## **FRENCH**

### **FRENCH I**

<b>Course #: 118001/218001</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** French I gives students a foundation in pronunciation, basic conversation, vocabulary and basic grammar structure. Students learn to converse about themselves, family, likes and dislikes, school, and food. Students begin learning about customs and culture of French speaking countries through song, games and food.


### **FRENCH II**

<b>Course #: 118011/218011</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Completion of French I &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** French II continues to build on the foundation of grammar, vocabulary, reading, writing, and conversation established in French I. French II expands the students’ ability to handle daily life in French. Students will communicate on a broader array of topics in the target language. The themes include sports, weather, celebrations, travel, and home life.




### FRENCH III

<b>Course #: 118021/218021</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Completion of French II with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		


**Content:** French III is an extension of the learning started in French I and II. Focus is placed on all areas of communication. Students in this course will continue to refine their understanding of grammar, to use oral and written language, and to improve their listening comprehension. Students will enhance their reading, speaking, listening, and writing skills through the use of discussions, authentic readings, contextual writings, and film. This course follows an alternating curriculum cycle.

### FRENCH IV

<b>Course #: 118031/218031</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of French III with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** French IV is an extension of the learning started in previous courses. All areas of communication are focused upon. Students continue to refine their understanding of grammar, their use of oral and written language, and to improve their listening comprehension. Reading, speaking, listening, and writing skills will continue to be enhanced through discussions, authentic readings, contextual writings, film, and cuisine. This course follows an alternating curriculum cycle.


### FRENCH PRE IB

<b>Course #: 118221/218221</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Completion of French II or French III with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** This course is designed to prepare students for the more rigorous course of French IB. Communicative themes will include food, technology, professions, and the environment. Students learn to express their ideas in a more complex way using different tenses and more complex grammatical structures. The course will refine and further develop the students’ knowledge of the Francophone world. Students will continue to explore culture through authentic songs, readings, cuisine, videos, and films. This course will help prepare students for French IB




## FRENCH IB I

<b>Course #: 118051/218051</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of Pre-IB French with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** The first year of the French IB program emphasizes the development of receptive, productive and interactive skills in the target language through listening, speaking, reading, and writing activities. Instruction is based on authentic materials, such as articles, film, music, and literature. The curriculum includes the core topics of communications and media, global issues, social relationships, along with two of the following IB options: cultural diversity, customs and traditions, health, leisure or science and technology. Students will refine and synthesize prior knowledge in order to form opinions and express themselves in the target language in multiple situations and different formats. This course will prepare the students for advanced university standing.

## FRENCH IB II


<b>Course #: 118061/218061</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of French IB I with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** The second year of the French IB program is a continuum of the IB I curriculum. It emphasizes the further refinement of the skills attained in IB I. Students will synthesize prior knowledge in order to form opinions and express themselves in the target language in multiple situations. Students will further refine their receptive, productive and interactive skills. They will continue to explore French culture through authentic songs, poetry, readings, cuisine, videos, and films. This course will prepare the students for advanced university standing and/or to earn university credit.




# GERMAN

## GERMAN I

<b>Course #: 118071/218071</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		


**Content:** German I introduces basic German grammar and the vocabulary necessary to communicate about yourself, your interests, your family and friends, your school, and food. Students will complete a variety of activities developing their listening, speaking, reading and writing skills at a beginner's level. They will learn basic grammatical skills, such as expressing ideas in the present tense and the conjugation of verbs. They will explore the culture of the German speaking world through music, videos and cuisine.

## GERMAN II

<b>Course #: 118081/218081</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Completion of German I with a "C" or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** Students in German II will continue developing their skills in listening, speaking, reading and writing. Topics will cover celebrations, home, vacation and transportation. Students will learn to express events in different tenses with a focus on the present and past tenses. In this course, students will transition to a more complex understanding and production of German. Students will continue to explore German Culture through authentic songs, readings, cuisine, videos, and films.


## GERMAN III

<b>Course #: 118091/218091</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Completion of German II with a "C" or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** German III is planned for students wishing to expand their use of German. The focus is on further developing skills in listening, speaking, reading and writing. Topics include health, life in the city, profession and careers as well as nature. Students transition into expressing their ideas in a more complex way using different tenses and more complex grammatical structures in German. Students will continue to explore German culture through authentic songs, readings, cuisine, videos, and film.




## GERMAN IV

<b>Course #: 118101/218101</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of German III with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** German IV places further emphasis on communicating in the target language through a variety of listening, writing, and speaking activities. Communication will focus on health, life in the city, profession and careers as well as nature. Students who take German IV have a great interest in deepening their understanding of the German language. It will refine and strengthen what they learned in German III/Pre-IB. Students learn to express their ideas in a more complex way using different tenses and more complex grammatical structures. Students will continue to explore German culture through authentic songs, readings, cuisine, videos, and films. This course will help prepare the students for possible advanced university standing.


## GERMAN PRE-IB

<b>Course #: 118241/218241</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Completion of German II or III with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** German Pre-IB places further emphasis on communicating in the target language through a variety of listening, writing, and speaking activities. This course is designed to prepare students for the more rigorous course of German IB. Communication will focus on health, life in the city, profession and careers as well as nature. Students learn to express their ideas in a more complex way using different tenses and more complex grammatical structures. The course will refine and further develop their knowledge of German. Students will continue to explore German culture through authentic songs, readings, cuisine, videos, and film. This course will help prepare the students for possible advanced university standing.




## GERMAN IB I

<b>Course #: 118111/218111</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of German Pre IB or German III or IV with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** The first year of the IB program emphasizes the development of receptive, productive and interactive skills in the target language through listening, reading, speaking, and writing activities. Instruction is based on authentic materials such as articles, film, music, and literature. The curriculum will include topics such as Identities, Experiences, Human Ingenuity, Social Organizations, and sharing the planet. Students will refine and synthesize prior knowledge in order to form opinions and express themselves in the target language in multiple situations and different formats. Students will further develop their receptive, productive and interactive skills. This course will help prepare the students for possible advanced university standing.

## GERMAN IB II


<b>Course #: 118121/218121</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of German IB I with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** The second year of the IB program is a continuum of the IB I curriculum. It emphasizes the further refinement of the skills attained in IB I. Students will synthesize prior knowledge in order to form opinions and express themselves in the target language in multiple situations. They will continue to explore German culture through authentic songs, readings, cuisine, videos, and films. This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May depending on the university they will attend. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <https://uwhelp.wisconsin.edu/prep-for-college/credits/testing-ap-ib/#results>




## SPANISH

### SPANISH I

<b>Course #: 118131/218131</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		


**Content:** Spanish I is designed for students who have little to no previous study of Spanish. The course introduces basic vocabulary and grammar using a variety of reading, writing, listening and speaking activities in simple Spanish. Culture will be incorporated and experienced through songs, readings and videos.

### SPANISH II

<b>Course #: 118141/218141</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Completion of Spanish I with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** Spanish II reviews and builds on the vocabulary and grammar that students established in Spanish I. Students learn to speak about what they and others do, what they and others did, to tell others what to do, and to express their opinion. Students will explore the culture of Spanish speaking countries through a variety of activities that include songs, stories, games, and cooking. Students are encouraged to actively participate and use the language.


### SPANISH III

<b>Course #: 118151/218151</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Completion of Spanish II with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: Workbook \$3.00</b>
		

**Content:** The content of this course is taught through a rotating curriculum. In this course students will continue to refine and develop their listening, speaking, reading and writing skills. They will build on their vocabulary base and be able to say what they and others did, used to do, will do, would do, and have done. Students will learn and use the language through short stories, current events, games, videos, and partner activities. Students will compare and contrast how they live compared to people in Spanish speaking countries and other countries around the world. Students will be assessed through homework, classwork, quizzes, tests, translations and orals. Students are encouraged to actively participate and use the language. This course will prepare students for university placement.




**SPANISH IV**

<b>Course #: 118161/218161</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of Spanish III with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: Workbook \$3.00</b>
		

**Content:** The content of this course is taught through a rotating curriculum. In this course students will continue to refine and develop their listening, speaking, reading and writing skills from previous courses. They will build on their vocabulary base and be able to say what they and others did, used to do, will do, would do, and have done. Students will learn and use the language through short stories, current events, games, videos, and partner activities. Students will compare and contrast how they live compared to people in Spanish speaking countries and other countries around the world. Students will be assessed through homework, classwork, quizzes, tests, translations and orals. Students are encouraged to actively participate and use the language. This course will prepare students for university placement.


**SPANISH PRE-IB**

<b>Course #: 118251/218251</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Completion of Spanish II, III and/or IV with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: None</b>
		

**Content:** The focus of Spanish Pre-IB is to expand the students’ vocabulary base, to understand the components of the language, and to learn about the world in which we live, gaining global perspective. Students apply the vocabulary and concepts being taught in daily interactive practice. At the end of each unit students will read a short story, working to build comprehension. Each quarter will have a different cultural facet. Students will watch YouTube videos, listen and learn about real world events, and learn about people who have played important roles within the Spanish speaking countries. This course supports the core by incorporating history, strengthening literacy skills in both Spanish and English, and incorporating art, music and food. This course will prepare students for advanced university placement.




## SPANISH IB I

<b>Course #: 118181/218181</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of Spanish III, Spanish IV, or Spanish Pre-IB with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: Workbook \$20.00</b>
		

**Content:** Spanish IB I is the first year in a two year rotating curriculum. Content based on the IB themes of Identities, Experiences, Human Ingenuity, Social Organizations, and Sharing the Planet will be presented and taught in Spanish. Instruction based on authentic materials will also cover conceptual understanding of audience, context, purpose, meaning and variation. Students will produce meaningful language in both oral and written expression. Comprehension skills will be stretched and enhanced by both listening and reading. All content will have cultural focus. Students will be exposed to different text types, photos, videos, and YouTube clips, appropriate to the content presented. This course prepares students for advanced university placement and

## SPANISH IB II

<b>Course #: 118191/218191</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Completion of Spanish IB I with a “C” or better &amp; teacher recommendation.</b>	<b>Fee: Workbook \$20.00 (Unless purchased last year for IB I)</b>
		

**Content:** The second year of the IB program is a continuum of the IB I curriculum. It emphasizes the further refinement of the productive and receptive skills practiced and attained in IB I. Students will synthesize prior knowledge in order to form opinions and express themselves in the target language in multiple situations. This is an interactive class where students are not only learning language, but content in the language. Culture and language will be reinforced through songs, readings, cuisine, videos and films. Additional preparation will be given for taking the IB exam and the placement exam. This course will help prepare students for possible advanced university standing and or university credit.

Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <https://uwhelp.wisconsin.edu/prep-for-college/credits/testing-ap-ib/#results>



## INTERNATIONAL BACCALAUREATE PROGRAM

**Do you** enjoy learning for learning's sake; enjoy exploring concepts, ideas and issues of local and global significance; thinking critically and creatively; understand and express ideas and information confidently; enjoy analyzing literature; have the courage to explore new roles, ideas and strategies; understand and respect that other people can be right even if their ideas differ from yours? Do you want to further develop the personal attributes described in the IB learner profile shown below?

**If you have answered “yes” to more than half of these questions, this department may have courses for you!**

**For greater understanding of your interests, see your guidance counselor to review your interest inventory results.**

### IB LEARNER PROFILE

The aim of all IB programmes is to develop internationally-minded people who, recognising their common humanity and shared guardianship of the planet, help to create a better and more peaceful world. IB learners strive to be:

**Reflective**  
Give thoughtful consideration to your own learning and experience. You are able to assess and understand your strengths and limitations in order to support your learning and personal development.

**Balanced**  
Understand the importance of intellectual, physical and emotional balance to achieve personal well-being for yourself and others.

**Knowledgeable**  
Explore concepts, ideas and issues that have local and global significance. In so doing, you acquire in-depth knowledge and develop understanding across a broad and balanced range of disciplines.

**Open-minded**  
Understand and appreciate your own culture and personal histories, and are open to the perspectives, values and traditions of other individuals and communities. You seek and evaluate a range of points of view, and you are willing to grow from the experience.

**Inquirers**  
Have a natural curiosity and learn to acquire the skills necessary to conduct inquiry and research and show independence in learning. You actively enjoy learning and this love of learning will be sustained throughout their lives.

**Risk-takers**  
Approach unfamiliar situations and uncertainty with courage and forethought, and have the independence of spirit to explore new roles, ideas and strategies. You are brave and articulate in defending your beliefs.

**Principled**  
Act with integrity and honesty, with a strong sense of fairness, justice and respect for the dignity of the individual, groups and communities. You take responsibility for your own actions and the consequences that accompany them.

**Communicators**  
Understand and express ideas and information confidently and creatively in more than one language and in a variety of modes of communication. You are willing to work in collaboration with others.

**Caring**  
Show empathy, compassion and respect towards the needs and feelings of others. You have a personal commitment to service, and act to make a positive difference to the lives of others and to the environment.

**Thinkers**  
Exercise initiative in applying thinking skills critically and creatively to recognise and approach complex problems, and make reasoned, ethical decisions.





## **Career Opportunities**

Career opportunities are available in all IB subjects where intellectual rigor is emphasized. The ability to be a self-motivated learner, thinker, and communicator is necessary. People who pursue the IB diploma are often doctors, teachers/professors, lawyers, diplomats, researchers, and leaders in business.

## **Your Options**

Students may choose to take an IB course in any area of study that they have an interest in as long as they have met the prerequisites required for that course.

If the student completes the IB course of study for that subject area, they may qualify to take the IB exam to potentially earn college credits.

If you would like to see what credit you could earn for IB exams at any school in the UW system, check out the following website:

<https://uwhelp.wisconsin.edu/prep-for-college/credits/testing-ap-ib/>

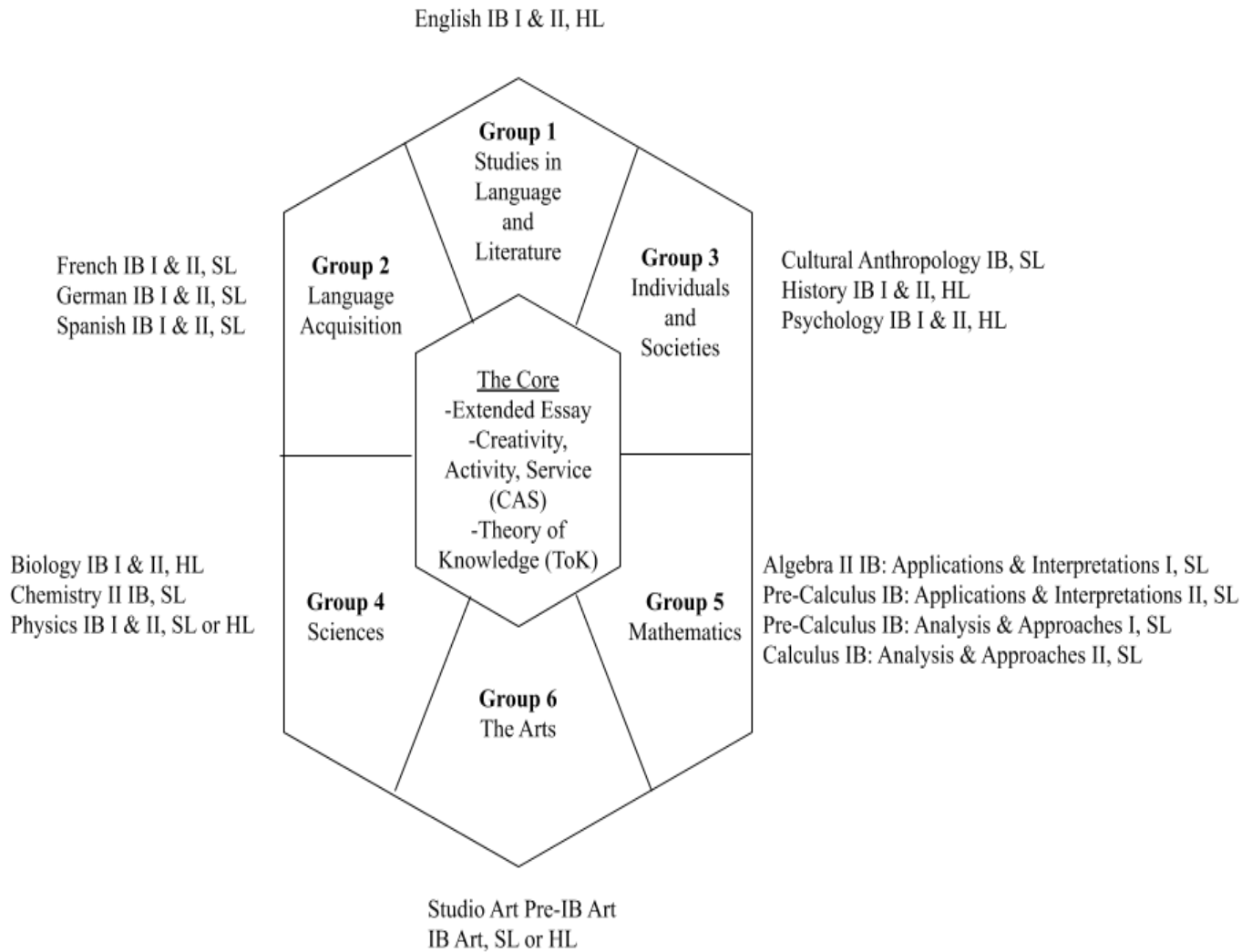
To pursue the IB diploma, the student must complete the coursework and take exams in six classes. There needs to be at least one course in Groups 1-5. Students may choose to take an additional class in the Sciences or Individuals and Societies instead of a course in The Arts. The student needs to take at least three, but not more than four, subjects at the higher level (HL).

Diploma candidates also must complete The Core:

- Theory of Knowledge (ToK), in which students reflect on the nature of knowledge and on how we know what we claim to know.
- The extended essay, which is an independent, self-directed piece of research, finishing with a 4,000 word paper.
- Creativity, activity, service (CAS), in which students complete a project related to those three concepts.



## **IB Courses Offered at East**





### THEORY OF KNOWLEDGE AND THE CORE I

<b>Course #: 215571</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11</b>	<b>Prerequisite: Students must be enrolled as Full Diploma candidates and meet with the IB Coordinator to approve their schedule.</b>	<b>Fee: None</b>

**Content:** ToK begins with the Core theme: Knowledge and the Knower. It addresses questions such as the following: What shapes my perspective? Where do our values come from? How can we navigate the world? How can we tell when we are being manipulated? We then explore themes such as the following: Knowledge and Technology, Knowledge and Language, Knowledge and Indigenous Societies, Knowledge and Politics, or Knowledge and Religion. Students who enroll in this class will be assigned to a special homeroom in first semester to begin work on their CAS projects and their extended essays.

### THEORY OF KNOWLEDGE AND THE CORE II

<b>Course #: 115581</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Theory of Knowledge and Core I.</b>	<b>Fee: None</b>

**Content:** This course will look at the following Areas of Knowledge: History, The Human Sciences, The Natural Sciences, Mathematics, and the Arts. An exhibition and written essay are completed to demonstrate mastery of ToK concepts. This class also supports the extended essay process. Student who enroll in this class will be assigned to a special homeroom in second semester to complete work on their CAS portfolio.



## **MATHEMATICS**

<b>Course Title</b>	<b>Length</b>	<b>Year Taken</b>
Algebra 1a	Year	9-12
Algebra 1b	Year	10-12
Algebra 1	Year	9-12
Geometry	Year	9-12
Geometry Support – Teacher Referral Only	Year	10
Intermediate Algebra	Year	11-12
Algebra II	Year	11-12
Algebra II IB – Applications & Interpretations I, SL	Year	10-12
Advanced Math	Year	12
Pre-Calculus IB – Applications & Interpretations II, SL	Year	12
Pre-Calculus IB – Analysis & Approaches I, SL	Year	11
Calculus IB Analysis & Approaches SL	Year	12
Probability and Statistics	Year	11-12

### **All courses are guided by the following Standards for Mathematical Practice**

Make sense of problems and persevere in solving them.

Reason abstractly and quantitatively.

Construct viable arguments and critique the reasoning of others.

Model with mathematics.

Use appropriate tools strategically.

Attend to precision.

Look for and make use of structure.

Look for and express regularity in repeated reasoning.

### **FAQ Section:**

What is the Common Core?

The Common Core State Standards are “designed to be robust and relevant to the real world, reflecting the knowledge and skills that our young people need for success in college and careers.” The Math and English Language Arts Standards have been adopted by 45 of our United States, including Wisconsin. Please refer to: [www.corestandards.org](http://www.corestandards.org) for more information.

What is Project Lead the Way?

“PLTW provides middle and high schools with engaging, hands-on STEM (Science, Technology, Engineering, and Math) courses that prepare students to be innovative and productive leaders.” 4700 schools in all 50 states offer PLTW courses. Please refer to [www.pltw.org](http://www.pltw.org) for more information.

What is IB?

Mathematics represents Group 5 of the IB Program. Students participate in Mathematics Applications and Interpretation or Analysis and Approaches SL at Wausau East. More information can be found at: [www.ibo.org](http://www.ibo.org) and through our IB Coordinator, Mrs. Darlene Beattie.



### What is AP?

Advanced Placement exams can be taken at the conclusion of Calculus IB and Probability and Statistics in coordination with Wausau West High School. Students can work with their East teacher to arrange for testing at West High School. Please see [www.apcentral.collegeboard.com](http://www.apcentral.collegeboard.com) for more information.

### What is NTC Dual Credit?

Wausau East works with NTC to offer courses at East for which students earn college credit directly. Upon successful completion of the course at East, students will work with their teacher to register for college credit through Northcentral Technical College. This credit should transfer throughout the UW system and is often recognized for credit at other universities. Search “dual credit” at: [www.ntc.edu](http://www.ntc.edu) for more information.

### How do I get more information about career opportunities in math?

Visit [www.bls.gov](http://www.bls.gov) and search for:

Construction trades, electrician, metal manufacturing, financial services, engineering, residential design, computer aided design, market research consultant, nutritionist, pharmacist, radiologist, real estate appraiser, computer analyst, bank teller, loan officer, casino cashier, certified public accountant, stock broker, surveyor, chemist, building estimator, business administration, economics, statistics.

## Career Opportunities

Good math skills open the door to many occupations. Mathematical skills will help you succeed in high school, post-secondary education, and the world of work. The following is a small sample of occupations that require a high proficiency in math.

Construction Trades, Electrician, Metal Manufacturing, Financial Services, Engineering, Mechanical Engineering, Residential, Computer Aided Design, Civil Engineer, Flight Engineer, Market Research Consultant, Nutrition Research, Pharmacist, Radiologist, Real Estate appraiser, Computer Analyst, Aerospace Engineer, Bank Teller, Casino Cashier, Certified Public Accountant, Stock Broker, Surveyor, Chemist, Building Estimator, Business Administration, Economics, Statistics.

## Mathematics Course Choices

### ALGEBRA 1a

<b>Course #: 119151/219151</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9</b>	<b>Prerequisite: Teacher referral only.</b>	<b>Fee: \$3.00</b>

**Content:** Algebra 1a is the first year in a two-year sequence to complete the curriculum expected in our Algebra 1 coursework. This course focuses on the following topics outlined in the Common Core Standards: relationships between quantities, expressions, solving equations and inequalities, linear equations and functions, arithmetic sequences, solving systems of equations and inequalities, absolute value equations and functions, and descriptive statistics. **Scientific calculator required: TI-30XII \$15.00. Graphic calculator suggested: TI-84 \$80-\$130.**



**ALGEBRA 1b**

<b>Course #: 119161/219161</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10</b>	<b>Prerequisite: Algebra 1a or C or lower in Algebra 1</b>	<b>Fee: \$3.00</b>

**Content** Algebra 1b is the second year in a two-year sequence to complete the curriculum expected in our Algebra 1 coursework. This course focuses on the following topics outlined in the Common Core Standards: exponential relationships and functions, geometric sequences, polynomials and factoring, graphing and solving quadratic functions and modeling, analyzing functions, and an introduction to geometry.

**Scientific calculator required: TI-30XII \$15.00. Graphic calculator suggested: TI-84 \$80-\$130.**

**ALGEBRA 1**

<b>Course #: 119041/219041</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$3.00</b>

**Content:** This yearlong course focuses on the following topics outlined in the Common Core Standards: relationships between quantities and reasoning with equations, linear and exponential relationships; descriptive statistics; expressions and equations; and quadratic functions and modeling. **Scientific calculator required: TI-30XII \$15.00. Graphic calculator suggested: TI-84 \$80-\$130.**

**GEOMETRY**

<b>Course #: 119121/219121</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Algebra 1 (with a grade of C or better)</b>	<b>Fee: \$3.00</b>

**Content:** This yearlong course focuses on the following topics outlined in the Common Core Standards: transformations, congruence, proof, and constructions, similarity, proof, and trigonometry; extending to three dimensions; connecting algebra and geometry through coordinates; circles with and without coordinates; and applications of probability. **Scientific calculator required: TI-30XII \$15.00. Graphic calculator suggested: TI-84 \$80-\$130.**


**GEOMETRY SUPPORT**

<b>Course #: 119441/219441</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10</b>	<b>Prerequisite: Teacher referral only.</b>	<b>Fee: None</b>

**Content:** This elective credit course is designed to support student success in Geometry by offering pre teaching and homework support along with instruction and practice on skills in the 9<sup>th</sup> grade mathematics assessment. **Scientific calculator required: TI-30XII \$15.00. Graphic calculator suggested: TI-84 \$80-\$130.**



## INTERMEDIATE ALGEBRA

<b>Course #: 119141/219141</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Algebra 1 (with a C or better) &amp; Geometry</b>	<b>Fee: \$3.00</b>
		

**Content:** This course offers algebra content with applications. Topics include properties of real numbers, order of operations, algebraic solutions for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverses, logarithmic and exponential functions. **Scientific calculator required: TI-30XI \$15.00**

**NTC DUAL CREDIT may be possible pending appropriate grades.**

## ALGEBRA II

<b>Course #: 119061/219061</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Algebra 1 (with a C or better) &amp; Geometry</b>	<b>Fee: \$3.00</b>

**Content:** This yearlong course is a continuation of Algebra I. The emphasis of this course is the structure of real numbers; quadratic, polynomial, and logarithmic functions; analytical geometry; probability and statistics. The use of a graphing calculator will be taught as a tool to check answers or solve problems when no algebraic solution is possible.

**Required Calculator: TI-84: \$80-\$130**


## ALGEBRA II IB Applications & Interpretations I, SL

<b>Course #: 119221/219221</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-11</b>	<b>Prerequisite: Algebra 1 (with a C or better) &amp; Geometry</b>	<b>Fee: \$3.00</b>

**Content:** The emphasis of this course is on relationships between functions, their graphs, and transformations of them. Topics include the structure of real numbers; complex numbers; quadratic, polynomial, rational, radical, and logarithmic functions. The use of a graphing calculator will be taught as a tool to check answers or solve problems when no algebraic solution is possible. This course will also include necessary extensions to each of these topics to begin preparation for the IB Mathematics SL programs. **Required Calculator: TI-84: \$80-\$130**



## ADVANCED MATH

<b>Course #: 119011/219011</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Algebra II</b>	<b>Fee: None</b>
		

**Content:** This is a yearlong course that covers the following topics: polynomial functions, logarithms, sequences and series, limits, linear and quadratic functions inequalities, analytical graphing, and trigonometry. The use of a graphing calculator will be taught as a tool to check answers or solve problems when no algebraic solution is possible. **NTC DUAL CREDIT MAY BE POSSIBLE PENDING ARRANGEMENTS.**

**Required calculator: TI-84: \$80-\$130**

## PRE-CALCULUS IB Applications & Interpretations II, SL

<b>Course #: 119201/219201</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Algebra II IB Applications &amp; Interpretations I, SL (with a grade of C or better)</b>	<b>Fee: None</b>

**Content:** This yearlong course covers the following topics: functions, logarithms, sequences, series, limits, probability, statistics, logic, trigonometry, and differential calculus. This course is required for those students wishing to test in Mathematics SL Applications & Interpretations, as part of the IB program.

**Required calculator: TI-84: \$80 -\$130**

## PRE-CALCULUS IB Analysis & Approaches I, SL

<b>Course #: 119211/219211</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11</b>	<b>Prerequisite: Algebra II IB Applications &amp; Interpretations I, SL (with a grade of C or better)</b>	<b>Fee: None</b>

**Content:** This yearlong course covers the following topics: functions, logarithms, sequences, series, limits, probability, statistics, vectors, trigonometry, and differential calculus. This course is required for those students wishing to test in Mathematics Analysis & Approaches, SL after taking Calculus IB as part of the IB program. The internal assessment portfolio for the math standard level will be required, whether taking the Math SL exam or not.

**Required calculator: TI-84: \$80-\$130**



## CALCULUS IB Analysis & Approaches, SL

<b>Course #: 119231/219231</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Pre-calculus IB Analysis &amp; Approaches I, SL</b>	<b>Fee: None</b>

**Content:** This is a yearlong course which focuses on the concepts covered in the first semester of a college calculus course. This course is comparable to the AP Calculus AB course offered at many US high schools. The major emphasis will be on differentiation and integration and their applications. This course is required for those students testing at the Mathematics Analysis & Approaches as part of the IB program.

**Required calculator: TI-84: \$80-\$130**

This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May. Please research the following websites for further information on local, national and international university recognition policies:

<http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.

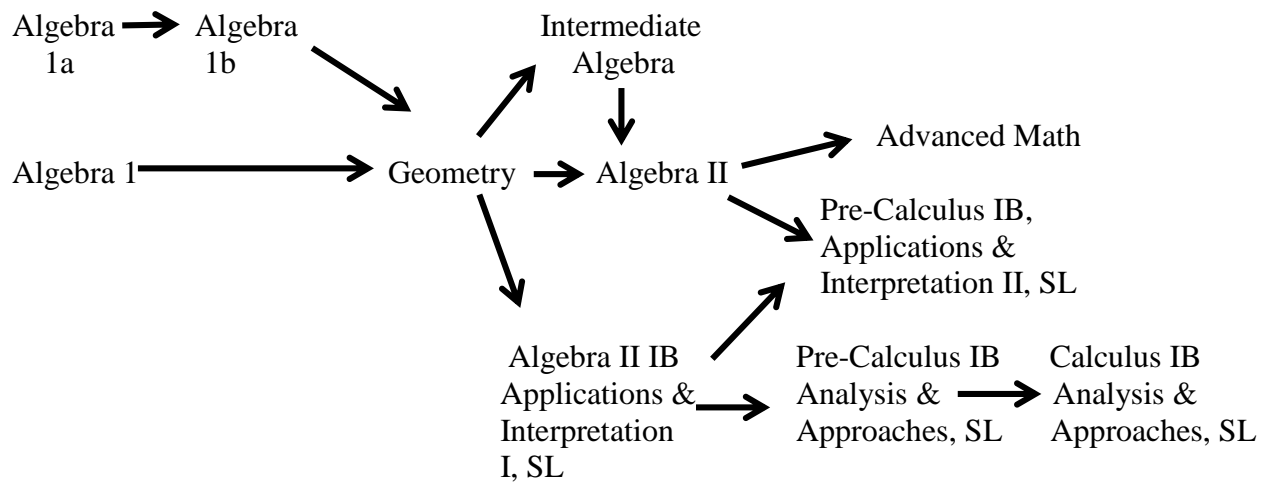
## PROBABILITY AND STATISTICS

<b>Course #: 119371/219371</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Algebra II or concurrent with Math Department approval.</b>	<b>Fee: None</b>

**Content:** Probability and Statistics is a yearlong course. 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 will be used throughout the course along with the use of statistical software. The opportunity to take the AP Statistics Exam (for college credit at many universities) at the end of the course will be available and encouraged for all students. **Required calculator: TI-84: \$80 - \$130.**



### Possible Mathematics Sequence: 2022-2023



### Possible Electives: 2022-2023

Probability and Statistics Algebra II prerequisite or concurrent (AP Test Option)

Co-Teacher for Algebra 1, Algebra 1a, Algebra 1b, Geometry, or Intermediate Algebra



## **MUSIC**

**Do You . . .** like expressing your feelings and ideas visually, in writing, or by performing; enjoy using your creative talents; enjoy translating design ideas into design realities; enjoy artistic or musical activities; enjoy making speeches, debating, or participating in theatre?

**If you have answered “yes” to more than half of these questions, this department may have courses for you!**

**For greater understanding of your interests, see your guidance counselor to review your interest inventory results.**

### **Career Opportunities**

Arts and communications are essential parts of our modern society. People in these careers share emotions, ideas, information, and innovations. They are creative people who enjoy sharing their talents with others. The arts include careers in film, theatre, television, radio, dance, music, and visual arts. Nearly all careers in the arts require special talent and training. Anyone entering the arts must have strong talent, great determination and the ability to withstand disappointment and rejection. People in the arts need to be self-disciplined, creative, and able to express themselves through their art, whatever it may be.

**MUSIC DEPARTMENT FEES:** In addition to course fees, funds may be needed for trips and Solo and Ensemble Festival. Financial assistance will be available to students facing financial hardship.


### **Course Choices**

<b>Course Title</b>	<b>Length</b>	<b>Year Taken</b>
Mixed Choir	Year	9-12
Concert Choir Men	Year	10-12
Concert Choir Women	Year	10-12
Symphonic Band	Year	9-12
Wind Ensemble	Year	9-12
Orchestra	Year	9-12
Music Theory	Semester 1	9-12
Color Guard	Quarter	9-12

**VOCAL MUSIC POLICY:** No student shall be granted two (2) credits of course work for singing in two different choirs at Wausau East during the same school term. This does not disqualify the student from participation in two choirs. The student participating in two or more choirs must be enrolled in and attending four (4) other courses in compliance with the full-time student definition.




## CONCERT CHOIR

<b>Course #:</b> <b>Women - 120021/220021</b> <b>Men - 120041/220041</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Consent of the Instructor after auditioning</b>	<b>Fee: None</b>
		


**Content:** The elements of a fine choral ensemble will be developed by studying music of various styles and musical periods. The choir meets Monday thru Friday to prepare for four major concerts a year and for other school and community performances. All students must audition for permission to enroll in this class. **May require additional funds for field trips (out of town concerts, theater tickets, and tours.)**

## MIXED CHOIR

<b>Course #: 120031/220031</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Lumberjack who like to sing.</b>	<b>Fee: None</b>
		

**Content:** Mixed Choir is open to all four grade levels and meets Monday through Friday to develop vocal and music reading skills. A wide variety of music styles are performed in major concerts throughout the year. Make new friends, discover talents you didn't know you had and enjoy a "music break" in your day. **May require additional funds for field trips (out of town concerts, theater tickets, and tours.)**

## ORCHESTRA

<b>Course #: 120061/220061</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$10.00</b> <b>Instrument rental may be available for \$30.00 per school year, plus upkeep and repair costs.</b>
		

**Content:** Orchestra students will explore a variety of music through performance and study on string instruments. Students will work to improve their playing ability and develop a comprehensive understanding of music. Those enrolled will participate in lessons in addition to their participation in class. **Students will need black dress shoes and black socks to complete the formal concert attire provided by the school. Additional funds may be required for field trips and other special opportunities (out of town concerts, Solo and Ensemble, field trips, etc.)**



## MUSIC THEORY

<b>Course #: 120101</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: See Mr. Jaeger prior to registration</b>	<b>Fee: None</b>


**Content:** Its purpose is to expose students to the basic aspects of musical study. It includes the study of fundamentals of music theory, sight reading, ear training, composition and conducting. All materials are provided by the instructor.

## COLOR GUARD

<b>Course #: 120111</b>	<b>Credit: .25</b>	<b>Length: Quarter 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$35.00</b>

**Content:** The Color Guard is open to all students and performs with the marching band for parades and the marching band 'season' (the 1st 6 weeks of school.) Activities will focus upon dance, movement, and performance---with and without typical color guard equipment. Performance opportunities and travel are also provided. During the marching band season, 1-2 additional practices after school, may be required after school. Color guard members are expected to attend the two-day band camps during the summer, and the separate 2 or 3-day color guard (only) camp. No experience is necessary and you do not need to play an instrument. Color guard is open to males and females.

## SYMPHONIC BAND


<b>Course #: 120081/220081</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Previous middle school band.</b>	<b>Fee: \$35.00</b>
		

**Content:** Symphonic Band is one of the two bands at East High School. This band is open to all students who play a wind or percussion instrument. Students will study a wide variety of musical styles, along with many diverse opportunities for field trips and public performances. Music literacy and understanding will be the focus, as students are immersed in performing, improvising, composing, listening, and analyzing.

Members of the Symphonic Band and Wind Ensemble will combine into the marching band, during the first 6 weeks of the school year. Individual/small group/or sectional lessons are required for all students during the school year, to increase their music reading and technique skills.



## WIND ENSEMBLE

<b>Course #: 120091/220091</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite:</b>	<b>Fee: \$35.00 (<i>see additional fees below</i>)</b>
		

**Content:** Wind Ensemble is an advanced band, open to all students (freshmen will need advanced permission from the instructor.) The activities will be similar to the Symphonic Band, but with more challenging literature. **All interested students must audition for placement, prior to registration.** Wind Ensemble membership is based upon instrumentation needs and playing ability. Regular practice on each student's instrument is expected.

Members of the Symphonic Band and Wind Ensemble will combine into the marching band, during the first 6 weeks of the school year. Individual/small group/or sectional lessons are required for all students during the school year, to increase their music reading and technique skills.

*Additional Fees:* **Probable Fees** for Wind Ensemble and Symphonic Band: (based on previous year costs)

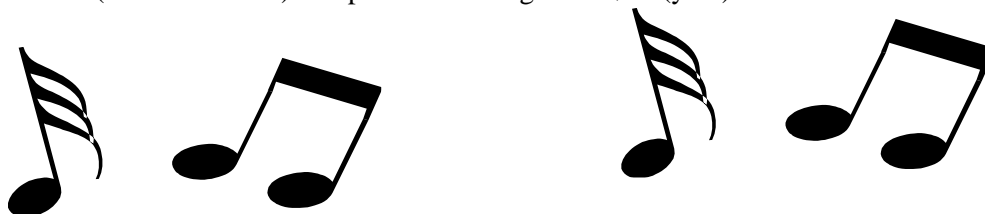
Marching Shoes--\$30

Pep Band Shirt--\$12

Band Participation Fee--\$35

School Instrument Rental and Percussion Fee

Wind instruments (when available) and percussion usage fee--\$30 (year)





## **PHYSICAL EDUCATION AND HEALTH**

<b>Course Title</b>	<b>Length</b>	<b>Year Taken</b>
9 <sup>th</sup> Grade Health & Physical Education	Year	9
Adventure Based Activities (Fall)	Semester 1	11-12
Adventure Based Activities (Spring)	Semester 2	11-12
Invasion Games	Semester	10-12
Lifetime Activities	Semester	10-12
Net & Partner Games	Semester	10-12
Student Instructor Seminar	Semester	11-12
Foundations of Fitness	Semester	10-12
Lumberjack Strength	Semester	10-12
Young Adult Medicine	Semester	10-12

**Students must take and pass 1.5 credits of P.E. & Health over a 3-4 year period to meet graduation requirements. If a student takes a full year of P.E. as a sophomore, only .5 credits will count towards the required 1.5. The other .5 will count as an elective credit above the 1.5 required.**

**Students cannot enroll in same class twice, (for graduation requirement) except for Lumberjack Strength. Students who wish to take Lumberjack Strength a second time must get instructor approval prior to registration. Students may repeat any class once their graduation credits have been earned.**

Leading an active lifestyle is important for your overall health and wellness. Our Physical Education Department has a wide range of courses that will help you be consistently active. Whether you are high-flying and adventurous, sports oriented, or prefer a more self-directed experience, we have classes that suit you!

### **Career Opportunities**

**People in the Health Sciences area will find ample opportunity for employment. Job opportunities include:**

Medical Researcher, Dentist, Doctor, Therapist, Psychiatrist, Medical Technologist, Ultrasound Technologist, Dental Hygienists, Medical Records Technician, Radiological Technologist, Licensed practical Nurse, Emergency Medical Technician, Surgical Technologist and Registered Nurse.

**People interested in Athletic Training and Physical Education may enjoy these job opportunities:**

Athletic Trainer, Physical Education Teacher, Occupational Therapist/Assistant, Physical Therapist/Assistant, Recreational Therapist, Coaching and Officiating.



## Course Choices

Students are required to accumulate 1.5 physical education activity credits and .5 health education credits for graduation. Freshmen will enroll in 9<sup>th</sup> grade Health and Physical Education for the entire year. PE 9 will include fitness based activities, sports based games and cooperative activities that encourage students to lead active and healthy lifestyles.

Upper classmen will have their choice of enrolling in Invasion Games, Net and Partner Games, Lifetime Activities, Weight Training, and Fall or Spring Adventure Based Activities. Upper classmen must complete 2 of these 5 activity courses to meet their physical education requirement. **They cannot enroll in the same course twice for graduation credit with the exception of Lumberjack strength and Fall and Spring adventure based activities.**

Students with short-term medical excuses (1-2 weeks) must attend all classes and complete all assignments in order to acquire credit. **Longer term medical excuses may require a student to reschedule a class during another semester.**

### 9<sup>th</sup> GRADE HEALTH AND PHYSICAL EDUCATION

<b>Course #: 121641/221641 PE 9 121691/221691 Health</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This is a required course for freshmen. Students will spend one semester in Physical Education and the other semester in Health Education.

**Health 9** This course helps students to develop the knowledge and skills that are essential in making healthy decisions that allow them to stay active, safe and informed. You will learn about the components of a healthy lifestyle and learn strategies for making healthy choices. By the end of the semester students will have had time to gain knowledge on being their healthiest self and lessons to practice the following essential skills for life-long health:

- Goal Setting
- Decision Making
- Accessing Information
- Analyzing Influences
- Interpersonal Communication
- Self-Management
- Advocacy

**Physical Education 9 (PE 9)** This course is designed to build a foundation of knowledge and skills that prepare students to engage in active and healthy lifestyles. The P.E. curriculum will include, but is not limited to activities that focus on the Five Components of Fitness, FITT Principle, team sports, cooperative games, fitness basics, resistance training and indoor and outdoor activities.

***Freshmen who do not meet minimum standards in either semester will need to repeat that semester.***



### FALL (Outdoor Ropes) ADVENTURE BASED ACTIVITIES

<b>Course #: 121981</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Successful completion of 1.0 PE credit</b>	<b>Fee: None</b>

**Content:** Do you like excitement and things like zip-lining and rock climbing? If so, this class is for you. If those things don't interest you, this can still be a good choice for your PE elective. All students will learn multiple belay methods and skills that will serve them well when interacting with others. This class focuses on improving self-confidence using team building activities with participation in a graduated series of problem solving challenge activities. Students will learn through initiative activities, cooperative games, and an adventure based high ropes course.

Our outdoor course has the following high elements.

- Catwalk
- Climbing walls
- Heebie Jeebies
- Team Beams
- Giant Swing
- Zip Line
- Pamper Pole

**\*\*\* Fall and Spring Adventure can be taken once each for graduation credit.**

### SPRING (Indoor Ropes) ADVENTURE BASED ACTIVITIES

<b>Course #: 221981</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Successful completion of 1.0 PE credit</b>	<b>Fee: None</b>

**Content:** Do you like excitement and things like zip-lining and rock climbing? If so, this class is for you. If those things don't interest you, this can still be a good choice for your PE elective. All students will learn multiple belay methods and skills that will serve them well when interacting with others. This class focuses on improving self-confidence using team building activities with participation in a graduated series of problem solving challenge activities. Students will learn through initiative activities, cooperative games, and an adventure based high ropes course.

Our indoor course has the following high elements.

- Climbing wall with overhang
- Two Line Bridge (Pods)
- Dangle Duo (Giant Ladder)
- Cargo Net (with circus and firecracker ladders)
- Swinging Beam
- Leap of Faith (Indoor Pamper Pole)
- Giant Swing
- Flying Squirrel

**\*\*\* Spring and Fall Adventure can be taken once each for graduation credit.**



## INVASION GAMES

<b>Course #: 121861/221861</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Successful completion of PE 9</b>	<b>Fee: None</b>

**Content:** This course will focus on invasion type team sports such as flag football, la Crosse, basketball, invasion games and floor hockey with an emphasis on game strategies and skills needed to be competitive in each sport. Skills and knowledge will be assessed throughout each unit and fitness activities will also be a part of this course. The course is designed for students who want to improve their game skills and have the opportunity to play those games in a cooperative and competitive setting.

## LIFETIME ACTIVITIES

<b>Course #: 121881/221881</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Successful completion of PE 9</b>	<b>Fee: \$14.00</b>

**Content:** The units in this course may include the following activities; Hiking, biking, geocaching, disc golf, golf, personal fitness, dance, yoga, meditation. Possible held trips may include: yoga, goat yoga, hiking at the Eau Claire Dells, ice skating at the indoor rink and biking on local trails.

## NET & PARTNER GAMES

<b>Course #: 121871/221871</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Successful completion of PE 9</b>	<b>Fee: None</b>

**Content:** This course will focus on barrier net games such as tennis, badminton and volleyball with an emphasis on game strategies and skills needed to be competitive in each sport. Skills and knowledge will be assessed throughout each unit and fitness activities will also be a part of this course. The course is designed for students who want to improve their game skills and have the opportunity to play those games in a cooperative and competitive setting.

## STUDENT INSTRUCTOR SEMINAR (Teaching Assistant “T.A”)

<b>Course #: 121901/221901</b>	<b>Credit: .25</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Junior or Senior and PE staff written approval.</b>	<b>Fee: None</b>

**Content:** Stuedents who wish to assist in the P.E Department can take this course.. 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 daily procedures such as set up and take down, recording and organizing equipment. General credit is earned in this course but does not count toward P.E. graduation requirements.



## **WEIGHT TRAINING-FITNESS**

### **FOUNDATIONS OF FITNESS**

*(this class is for students who **do not participate in extracurricular school sports.**)*

<b>Course #: 121921/221921</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Successful completion of PE 9</b>	<b>Fee: None</b>

**Content:** This course will provide students who DO NOT participate in school sponsored sports with the opportunity to experience a daily weight training and conditioning program. The course will focus on activities that improve the 5 Components of Fitness: Muscular Strength, Muscular Endurance, Cardiovascular Endurance, Flexibility and Body Composition. This class will enhance the student's individual fitness level as it relates to their daily activities.

Grade when taken - 10, 11 or 12.

### **LUMBERJACK STRENGTH**

*(this class is for students **who participate in school sponsored sports.**)*

<b>Course #: 121911/221911</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Successful completion of PE 9</b>	<b>Fee: None</b>

**Content:** This course will provide students who DO participate in school sponsored sports to experience a daily, high level weight training and conditioning program. Emphasis within the class will be placed on agility, flexibility, nutrition, strength, anaerobic/aerobic conditioning, acceleration, speed and explosive power. The class is open to student/athletes who wish to enhance their individual fitness level as it relates to their daily activities. Each student in partnership with the instructor will design a program that will enable them to maximize their level of performance. The class is open to sophomore through senior students.

**This class may be taken twice for credit but requires **instructor approval** prior to registration.**

### **YOUNG ADULT MEDICINE**

<b>Course #: 121891/221891</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Health 9 and teacher consent.</b>	<b>Fee: \$5.00 CPR</b>

**Content:** This is a course in the Health Science Cluster from the Wisconsin Career Clusters. It includes health-related presentations from local physicians and health professionals. Students will become familiar with what constitutes good health and the delivery of health care. Possible areas to be included: pediatrics, family practice, psychiatry, orthopedics, pathology, O.B., dermatology, radiology and the hospital experience. CPR Pro certification, an introduction to sports medicine field trips may also be included as part of the total curriculum for this class.



## **SCIENCE**

<b>Course Title</b>	<b>Length</b>	<b>Year Taken</b>
Physical Science	Year	9*
Biology I	Year	9-12
Biology IB I	Year	11-12
Biology IB II	Year	12
Chemistry I	Year	10-12
Chemistry B	Year	11-12
Chemistry IB II	Year	11-12
Physics B	Year	11-12
Physics IB I	Year	10-12
Physics IB II	Year	11-12
Astronomy/Earth Science	Semester	10-12
Biology II (Human Anatomy & Physiology)	Semester	11-12
Field Biology	Semester 1	11-12
Environmental Science I & II	Semester 1/2	10-12
Horticulture	Semester 2	10-12
Medical Terminology	Semester 2	10-12

**A \$6.00 fee for each year long Science course \$3.00 fee for semester course will be collected at registration for supplies the student will use.**

## **Course Choices**

### **PHYSICAL SCIENCE**

<b>Course #: 122201/222201</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9 or teacher consent</b>	<b>Prerequisite: None</b>	<b>Fee: \$6.00</b>

**Content:** This course is designed to serve as a foundation for students planning to take additional work in Earth Science, Chemistry, and Physics. This course may not be pursued concurrently with Physics or Chemistry and may not be taken after a student has completed either of these courses. **Note:** Also offers a section of Physical Science (A) for some EL and SPED students.

\*If not grade 9, need the consent of the instructor.



## BIOLOGY I

<b>Course #: 122011/222011</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Required for all students for graduation.</b>	<b>Fee: \$6.00</b>

**Content:** The study of life. Topics covered: Ecology, cells, cell processes, evolution, bacteria, protists, fungi, plants, invertebrate and vertebrate animals, human body, disease, and genetics. **Note:** Also offer a section of Biology (A) for some EL and SPED students.

## BIOLOGY IB I

<b>Course #: 122061/222061</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: "C" average in Biology I and Chemistry I, or have the consent of the instructor.</b>	<b>Fee: \$6.00</b>

**Content:** Biology IB I is offered on a higher level as part of a two-year course. The junior year will cover the following topics: Bio Chemistry, Cells, DNA, Genetics, Respiration / Photosynthesis and Plants

## BIOLOGY IB II

<b>Course #: 122071/222071</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Passing grades in Biology IB I or have the consent of the instructor.</b>	<b>Fee: \$6.00</b>

**Content:** Biology IB II is offered on a higher level as part of a two-year course. The senior year will cover the following topics: Ecology / Conservation / Evolution and Human Anatomy and Physiology. The Group 4 Project to the Plover River along with the Internal Assessment "design" lab will be completed during 1<sup>st</sup> semester. This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May. In order to take the IB exam in Biology, the student must pass Biology IB I. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/> and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.

## CHEMISTRY I

<b>Course #: 122091/222091</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: "C" average in Algebra 1 and Biology I or have the consent of the instructor</b>	<b>Fee: \$6.00</b>

**Content:** Chemistry I deals with an overview of the field of chemistry. This is followed by a study of the principles of chemical reactions. A scientific or graphing calculator is required for this course. Chemistry I is designed to prepare students for higher level Chemistry courses such as Chemistry IB & college level Chemistry.



**CHEMISTRY B**

<b>Course #: 122101/222101</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Passing grades in Algebra 1 and Biology I or have the consent of the instructor</b>	<b>Fee: \$6.00</b>

**Content:** This course provides an overview of the basic concepts of Chemistry. The course is activity oriented, but basic Algebra is needed. It also looks at Chemistry and its relation to science as a whole.

**CHEMISTRY IB II**

<b>Course #: 122111/222111</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Chemistry I (advanced students)</b>	<b>Fee: \$6.00</b>

**Content:** Advanced Topics of Organic and Inorganic Chemistry. Course is intended for students pursuing careers in science or enrolled in the IB program. This course along with Chemistry I, covers the content of IB Standard Level Chemistry. This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.

**PHYSICS B**

<b>Course #: 122221/222221</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Biology I and Algebra 1</b>	<b>Fee: \$6.00</b>

**Content:** This physics course is similar to Physics IB I but a little slower paced. Topics include motion, mechanics, waves and electricity. Students should have a decent understanding of basic algebra skills and be able to solve for variables in an equation. Major events that occur in the class are Rube Goldberg night where students build and present Rube Goldberg projects for the public and Great America Theme Park where students are invited to go on a field trip to Six Flags Great America and analyze rides for their final semester project.



## PHYSICS IB I

<b>Course #: 122211/222211</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: "C" average in prior mathematics and science courses or have the consent of the instructor.</b>	<b>Fee: \$6.00</b>

**Content:** Physics IB I is geared toward stronger math and science students. Students are expected to bring a scientific calculator to class each day as the class has a large emphasis on computation and story problems. Students wishing to test in Physics IB should plan on taking the 2<sup>nd</sup> year of Physics IB after successful completion of Physics IB I. The purpose of the first year is to introduce students to the major areas of physics such as motion, forces, energy, waves and electricity. There is a heavy emphasis on demonstrations and labs as well as problem solving in the course. Physics students will build a Rube Goldberg project to present to the public for Rube Goldberg evening in the spring. The final course project culminates in the amusement park at "Six Flags Great America".

**NOTE:** IB policy only allows students in grade 11 to take SL exam; grade 12 for the HL exam if you wish to test in the Physics IB. So this means that a junior in Physics IB II would not be allowed to test HL for IB.

## PHYSICS IB II

<b>Course #: 122231/222231</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Physics I IB</b>	<b>Fee: \$6.00</b>

**Content:** Advanced Physics will extend the study of many topics started the first year in Physics IB I course. Additional topics relate to waves, power, climate change, quantum and nuclear physics, heat, optics, and engineering physics. Upon completion of this course, students will have the option of taking either the Standard level or Higher level IB Physics Exam. Scoring well on this exam may allow the student to get higher placement or college credit. This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May. Note: IB policy only allows students in grade 12 to take HL exam. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.

## ASTRONOMY/ EARTH SCIENCE

<b>Course #: 122001/222001</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Passing grades in prior Science courses and Algebra I</b>	<b>Fee: \$3.00</b>

**Content:** Astronomy/Earth Science will be offered each semester. This course begins with the study of the moon and solar system, and gradually works to the far reaches of the universe. Some basic mathematics is required in the study of size/distance relationships, modeling and light intensity. Use will be made of the planetarium at West High School. Part of the course requirement involves the students making outdoor observations in a journal.



## BIOLOGY II (HUMAN ANATOMY & PHYSIOLOGY)

<b>Course #: 122031/222031</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Biology I</b>	<b>Fee: \$3.00</b>

**Content:** Covers the different human body systems. Anatomy is the study of the structure and shape of the body and body parts and their relationships to one another. Physiology is the study of how the body and its parts work or function.

## FIELD BIOLOGY

<b>Course #: 122171</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Biology I or consent of the instructor</b>	<b>Fee: \$3.00</b>

**Content:** Field Biology is a field research course. Students will spend time outside conducting research. The class will cover Ecological concepts such as forest ecology, water ecology, invasion species, birds, WI lakes, wildlife, population change and community dynamics.

## ENVIRONMENTAL SCIENCE I

<b>Course #: 122161/222161</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Biology I</b>	<b>Fee: \$3.00</b>

**Content:** The goal of this course is to BEGIN to provide students with some of the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and man-made environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

Topics include: the roots of environmental problems, the characteristics of ecosystems and the major biomes on Earth, the cycling of substances through ecosystems, biodiversity, human population growth, and an introduction to human land and natural resource use. Reinforcement of content is supported by field trips and extensive laboratory and project work. The content of this course will be continued in ENVIRONMENTAL SCIENCE-II, second semester



## ENVIRONMENTAL SCIENCE II

<b>Course #: 122161/222161</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Environmental Science I</b>	<b>Fee: \$3.00</b>

**Content:** The goal of this course is to continue the exploration of environmental science topics covered in ENVIRONMENTAL SCIENCE-I. Topics begin with continuing the study of human land and natural resource use, the study of atmosphere and climate, energy production and use, air and water pollution, waste production and economic policies for the future. Reinforcement of content is supported by field trips and extensive laboratory and project work.


Knowledge gained in these courses will help students become competent decision makers in area concerning the environment as well as to help them explore some career options in the areas of S.T.E.M., Ecology, Environmental Science and Political Science.

## HORTICULTURE

<b>Course #: 222181</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Biology I or consent of the instructor</b>	<b>Fee: \$3.00</b>

**Content:** Horticulture is a course that allows students the opportunity to learn about plant anatomy and physiology. Additionally, students will learn about gardening, landscaping and work in the greenhouse.

## MEDICAL TERMINOLOGY

<b>Course #: 122361/222361</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Biology I or consent of the instructor</b>	<b>Fee: \$3.00 Student responsible for ordering and buying the correct book</b>
	 <small>1000 W. Campus Dr. • Wausau, WI 54401</small>	

**Content:** Medical Terminology guides you along the path of vocabulary development that thoroughly prepares you to communicate as a medical professional, insurer, lawyer, equipment supplier, pharmaceutical representative and others who interact with health care providers and consumers. It is a lifelong learning course that can be used to help you understand every day medical terms whether it is at the doctor's office or just watching TV. This rigorous course focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms with emphasis on spelling, definition and pronunciation. Students are then introduced to the operative, diagnostic, therapeutic and symptomatic terminology of all the body systems as well as structure, function and surgical terminology. Hands on activities are an integral part of the course to help with memorization. **Students who successfully complete this course may qualify for a dual credit through Northcentral Technical College.** NTC Equivalent Course: Medical Terminology # 10-501-101 (3 Credits)



## **SOCIAL STUDIES**

<b>Course Title</b>	<b>Length</b>	<b>Year Taken</b>
U.S. History I	Year	9
U.S. History II	Year	10
World History	Year	11
Economics	Semester	11-12
Government	Semester 1	11-12
Psychology	Semester	11-12
Sociology	Semester	11-12
Cultural Anthropology IB	Year	11-12
History IB I	Year	11
History IB II	Year	12
Psychology IB I	Year	11-12
Psychology IB II	Year	12
E.S.P (Economics, Sociology, Psychology) Seminar	Semester 2	11-12

**Do You . . .**enjoy keeping up on current events; want to learn more about how people in society work together; have an interest in learning about human behavior; have an interest in learning how government works; need to plan for your personal, financial, and career goals; enjoy learning about historical, political, and social events of the past?

**If you have answered “yes” to more than half of these questions, this department may have courses for you! For greater understanding of your interests, see your guidance counselor to review your interest inventory results.**

### **Career Opportunities**

Career opportunities in the area of Social Studies offer great diversity. Many of these occupations in this area are among some of the fastest growing jobs in the United States. They are also some of the highest paid and are predicted to be in the greatest demand in the next decade. These areas of employment include: Lawyers, Educators/Teachers (pre K-post secondary), Psychologists, Social Workers/Counselors, Medical Doctors, Nurses, Human Services, Recreation Therapist, Government Workers, Law Enforcement, Sales People, Economists, Business Professionals, Travel Agents, Geographers, Political Analysts and more.

### **Course Choices**

#### **US HISTORY I**

<b>Course #: 123181/223181</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 9</b>	<b>Prerequisite: All Freshmen</b>	<b>Fee: None</b>

**Content:** U. S. History I covers American History through the 19<sup>th</sup> century. Special attention is given to the origins and developments of our country’s social, political, and economic institutions. This is accomplished through a variety of in and out of class activities including a comprehensive study of primary documents culminating in written and oral assignments. This course is required of all freshmen.




## U. S. HISTORY II

<b>Course #: 123211/223211</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10</b>	<b>Prerequisite: All Sophomores</b>	<b>Fee: None</b>

**Content:** U. S. History II covers the 20<sup>th</sup> Century to the present. The course of study involves the growth of reform movements from the Progressives to the Great Society, the development of the American Empire, our involvement in two world wars, the Cold War and Government and Societal impacts of the decades of 1950 to the present. Course content is accomplished through a variety of in and out of class activities including a comprehensive study of primary documents culminating in written and oral assignments. This course is required of all sophomores.

## WORLD HISTORY

<b>Course #: 123241/223241</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** World History is a yearlong course for juniors required for graduation. The course is designed to expose students to the history and cultures that have developed among the world's nations. World History will emphasize the development of civilizations from the ancient River Valley Civilizations to the present. It will examine the forces that have created and destroyed the worlds' great civilizations including those in Europe, India, China, Africa, the Middle East, and Latin America. There will be a focus on connecting the past to current events worldwide.

## GOVERNMENT

<b>Course #: 123351</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** This course will study current social and political issues, citizenship, and the origins and structures of our government. It will be a student oriented, student directed examination of current political and social issues facing us as a nation, state, community, school and individuals. Students will examine current issues, trends and situations through hands-on activities, discussions, research projects and student presentations.




## ECONOMICS

<b>Course #: 123041/223041</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12 ( 10*)</b>	<b>Prerequisite: *sophomores 3.25 GPA or teacher permission</b>	<b>Fee: None</b>


**Content:** Economics is a one semester Social Studies elective open to juniors and seniors as well as sophomores with an accumulative 3.25GPA or better. Economics studies various economic systems throughout the global economy. The course will feature our Capitalistic System, including taxes, spending, budgets, government, labor, and wages. The course offers a solid perspective of Market Capitalism with the opportunity to view how our Economic System moves with other countries which together creates our modern global economy. The course highlight is an extensive financial literacy unit. This unit includes teaching students how to take control of their finances by setting financial goals, creating a budget, investing to achieve their goals, protecting assets with insurance, understanding how to use credit cards properly and comprehend the elements of Social Security and more. **This course meets the WSD Financial Literacy Requirement.**

## PSYCHOLOGY

<b>Course #: 123131/223131</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: \$3.00</b>
		

**Content:** This elective attempts to understand people as distinct individuals. Major topics covered are social influences on individual behavior, the biology of behavior, perception, altered states of consciousness, conditioning, memory, personality development, and mental illness. As a student in this course you will complete a personality analysis, dissect a brain, watch an illusionist manipulate your perceptions, develop a process for interpreting dreams, create a stress management plan, learn how to increase your memory, and much more.


## SOCIOLOGY

<b>Course #: 123271/223271</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** Sociology is the study of human groups or more specifically you as a member of several distinctly different human groups of which you are always in the process of joining, maintaining, altering, or leaving. You will study your role as a global citizen when we study world population from a local perspective. As a student of sociology, you will analyze groups and their conception as well as causes they may align with. Sociology explores the idea of tolerance as we study many groups that have formed from adversity and maintained their existence throughout discrimination and historical challenges. Students will have the opportunity to study and discuss current social issues.




## CULTURAL ANTHROPOLOGY IB

<b>Course #: 123011/223011</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Students need to be ready for challenging curriculum and/or consent of the instructor.</b>	<b>Fee: None</b>
		

**Content:** This one-year course presents an in-depth, college-level study of anthropological methodology. The focus of this class will be upon the important terminology and concepts used by anthropologists. Cultures such as the Brazilian Yanomami, Kenyan Masai, Australian Aborigines, and Haitian Voodoo will be explored. The student will also learn how to study cultural groups and evaluate cultural literature. There may be college credit for this. This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.


## HISTORY IB I

<b>Course #: 123091/223091</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11</b>	<b>Prerequisite: Students need to be ready for challenging curriculum and/or consent of the instructor.</b>	<b>Fee: None</b>
		

**Content:** History IB I is offered on a higher level as part of a two-year course. This course presents an in-depth, college level study of European history since the French Revolution with an emphasis on economic, social, and political developments on an international scale. Students will evaluate these themes with particular stress on the 19th and early 20th Century. Juniors who take History IB fulfill the 3<sup>rd</sup> year History requirement for graduation.




## HISTORY IB II

<b>Course #: 123101/223101</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: World History or History IB I. Students need to be ready for challenging curriculum and/or consent of the instructor.</b>	<b>Fee: None</b>
		

**Content:** History IB II is offered as a higher level and is open to all seniors. This course presents an in-depth, college level study of European history in the 20th Century, including the Russian Revolution, Nazism, World War II, and the Cold War with an emphasis on economic, social, and political developments on an international scale. Students may also take this yearlong course as a senior social studies elective. Higher level students will be expected to select some topic within the parameters of the course for individual research. Students taking History IB I and II are encouraged to take the end of the year IB exam. This course will help prepare the student for possible advanced university standing or may help earn university credit after taking the exams in May. In order to take the IB exam in History, the student must pass History IB I. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.


## PSYCHOLOGY IB I

<b>Course #: 123151/223151</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Students need to be ready for challenging curriculum and/or consent of the instructor.</b>	<b>Fee: None</b>
		

**Content:** This one-year course presents an in-depth college level study of psychological disciplines. The focus of this class will be upon the biological, cognitive, and socio-cultural interactions involved in behaviors. A focus upon abnormal psychology will be employed through the year. Students are encouraged to take Psychology IB II the following year. College credit for this course may be available.



**PSYCHOLOGY IB II**

<b>Course #: 123171/223171</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: Must have passed Psychology IB I. Students need to be ready for challenging curriculum and/or consent of the instructor.</b>	<b>Fee: None</b>
		

**Content:** This one-year course presents an in-depth college level study of psychological methodology. The focus of this class will be upon experimentation and abnormal psychology. Information from the previous year (PSYCHOLOGY IB I) will be employed extensively. Students are encouraged to take the end-of-year IB exam. This course will help prepare the students for possible advanced university standing or may help earn university credit after taking the exams in May. Please research the following websites for further information on local, national and international university recognition policies: <http://www.ibo.org/university-admission/>, and <http://uwhelp.wisconsin.edu/testing/ib.aspx>.







**E.S.P. (ECONOMICS, SOCIOLOGY, PSYCHOLOGY) SEMINAR**

<b>Course #: 223061</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Teacher recommendation.</b>	<b>Fee: None</b>

**Content:** This seminar is designed as a survey course which covers basic areas of these three disciplines. Major areas include the study of human groups, foundations of behavior and financial survival. Other more specific topics would include our mental and physical well-being, handling aggression and prejudice in our lives, providing for our financial needs, our passage through the life cycle and a look at how the future might affect our lives.



## TECHNOLOGY & ENGINEERING EDUCATION

Course Titles	Length	Year Taken	
Exploring Technology, Transportation and the Trades	Semester 1 or 2	9-12	
MANUFACTURING			
Introduction to CAD/CAM	Semester 1 or 2	9-12	
Metals I – Material Processes	Semester 1	10-12	
Woods I – Material Processes	Semester 2	9-12	
Woods II (Furniture Manufacturing)	Semester 2	10-12	
Introduction to Welding	Semester 1	10-12	
Metals II (Machine Tool Manufacturing)	Semester 2	10-12	
Advanced Manufacturing Processes	Year	11-12	
Building Trades I (Rough Framing)	Semester 1	9-12	
Building Trades II (Finish Carpentry)	Semester 2	10-12	
TRANSPORTATION/AUTOMOTIVE			
NTC Auto Academy	Year	12	
Introduction to Power Mechanics	Semester 1 or 2	9-12	
Auto Awareness	Semester 1 or 2	9-12	
Occupational Mechanics I	Year	11-12	
Occupational Mechanics II	Year	12	
GRAPHIC COMMUNICATIONS			
Graphic Communications I	Semester 1 or 2	9-12	
Graphic Communications II	Semester 1 or 2	9-12	
Graphic Communications III	Year	10-12	
Broadcast/Lumberjack Productions	Semester 1 or 2	9-12	
Skyrocket – Digital Media	Semester 1 or 2	9-12	
PROJECT LEAD THE WAY (Pre-Engineering Academy) – At Wausau West			
Fab Lab 1: Introduction to Engineering, Design and Manufacturing	Semester 1	9-12	
Fab Lab 2: Introduction to Engineering, Design and Automation	Semester 2	9-12	
Principles of Engineering	Year	10-12	
Civil Engineering & Architecture	Year	11-12	
Computer Integrated Manufacturing	Year	11-12	
Engineering Design & Development	Year	11-12	
YOUTH APPRENTICESHIP PROGRAM			
Architecture & Construction	One or Two Years	11-12	
STEM (Sci,Tech,Eng, Math)	One or Two Years	11-12	
Arts, A/V, Tech & Communication	One or Two Years	11-12	
Manufacturing	One or Two Years	11-12	
Information Technology	One or Two Years	11-12	
Trans, Distribution & Logistics	One or Two Years	11-12	
COMPUTER SCIENCE			
Computer Science (Web)	Semester 1 or 2	9-12	
Computer Science (Coding Investigations)	Semester 1 or 2	9-12	
Computer Science (Intermediate)	Semester 1 or 2	10-12	



**Technology and Engineering Education** courses provide application to core curriculum, enhance technological literacy and 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.

### **Career Opportunities**

Modern technology has an enormous effect on our lives. Scientists, engineers, technologists, and technicians all contribute to the wondrous development of technology. Jobs in construction and manufacturing will go to those who have obtained training and who have up-to-date skills. Technology and Engineering Education provides students with the opportunity to apply Math, Science, and other academic subjects in a stimulating atmosphere utilizing knowledge, tools, and skills.

### **EXPLORING TECHNOLOGY, TRANSPORTATION AND THE TRADES**

<b>Course #: 124421/22421</b>	<b>Credit: 0.5</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety Glasses Required</b>		

**Content:** This course is designed to give students the opportunity to explore the variety of Technology Education courses available at Wausau East and how each course is interrelated to the others. We will be exploring projects in Woods, Metals, Graphics, Automechanics, Computer Aided Drafting (CAD), Computer Numerical Control (CNC), and Engineering. Some of the potential projects will include: designing and building C02 cars, printing and applying vehicle graphic decals, basic vehicle maintenance, general home maintenance (electrical, plumbing and drywall repair) and automotive spray painting.

**Do you...**enjoy cars and trucks; enjoy working with your hands as well as your brain; enjoy the satisfaction of fixing things; enjoy working with cool tools and equipment?

### **NORTHCENTRAL TECHNICAL COLLEGE AUTO ACADEMY**

<b>Course #: 124691/224691</b>	<b>Credit: 1.25</b>	<b>Length: Year</b>
<b>Year Taken: 12</b>	<b>Prerequisite: appropriate classes listed below</b>	<b>Fee: None</b>
<b>Note: Safety Glasses Required</b>		

**Content:** Students that complete the following Wausau School District transportation classes: Auto Awareness, Power Mechanics, Occupational Mechanics I & II, by the end of their junior year 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 transfer into NTC associate degrees or technical diplomas so you will have a jump start if you want to continue your education after high school. (A tuition value of \$1800.) See your counselor or Mr. Poppe for additional information.



## INTRO TO POWER MECHANICS

<b>Course #: 224441</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** This course is designed for students who are interested in exploring the internal combustion engine as well as basic shop practices. During this class, students will explore the transmission and control of power systems, examine small engine theory of operation and its application to drive systems. Student experiences include: rebuilding, observing, troubleshooting, and applying two and four-cycle engine theory

## AUTOMOTIVE AWARENESS

<b>Course #: 124071/224071</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** 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 are strongly recommended.**

## OCCUPATIONAL MECHANICS I

<b>Course #: 124181/224181</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Intro to Power Mechanics or Auto Awareness</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		


**Content:** An occupational preparation course that develops job entry level skills in: Basic Maintenance, Electronics, Steering, Suspension, Brakes, and 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.

**Students who complete this course may qualify for Dual credit through NTC.**

<b>NTC Equivalent Class: Auto Service Fundamentals, #10-602-107, (2 Credits)</b>
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## OCCUPATIONAL MECHANICS II

<b>Course #: 124201/224201</b>	<b>Credit: 2.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Intro to Power Mechanics or Auto Awareness</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** 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 Youth Apprenticeship jobsite (where applicable). In the lab and at the Youth Apprenticeship 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 complete this course may qualify for Dual credit through FUTC.**

<b>FUTC Equivalent Class: Intro to Diesel Technology, #10-414-102, (4 Credits)</b>
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## WISCONSIN AUTOMOTIVE TECHNICIAN YOUTH APPRENTICESHIP

See Apprenticeship section in Course Description Booklet page 12.

**Do you ...**enjoy applying what you learn to real world problems; want to learn how to take care of problems that may arise in your own home; enjoy having the ability to see your accomplishments; want to get a high paying career without going to college; like working with your hands and mind?

## BUILDING TRADES, I (Rough Framing)

<b>Course #: 124391</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Woods I (Material Processes) recommended.</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** This intermediate level course offers students a chance to develop construction related knowledge and skills application. During the class students will construct a wood frame structure while focusing on safety, construction concepts, site layout, footings & foundation systems, wood framing, sheathing & weather barriers, doors & windows, as well as drywall installation & repair.



## **BUILDING TRADES II (Finish Carpentry)**

<b>Course #: 224431</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Building Trades I (Rough Framing)</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** Finish Carpentry is meant to serve as a next step beyond the class Building Trades I : Rough Framing. 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.

**Do you...**like to doodle during class; find yourself artistic; like working with computers; enjoy designing then creating your design?

## **INTRODUCTION TO CAD/CAM**

<b>Course #: 124151/224151</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety Glasses Required</b>		

**Content:** 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.

## **MECHANICAL/ARCHITECTURAL YOUTH APPRENTICESHIP**

See Apprenticeship section in Course Description Booklet page 12.

**Do you...**enjoy art and drawing; enjoy working computers; enjoy working on projects; enjoy designing and then making your designs?



## GRAPHIC COMMUNICATIONS I

<b>Course #: 111071/211071</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety Glasses Required</b>		


**Content:** In this class, students will develop skills in layout and design using standard Adobe Suite of graphic design software which includes InDesign, Photoshop, and Illustrator. Hands on projects include calendar design, one color t-shirt design, screen printing, vinyl graphic design and creation, dye sublimation printing and laser engraving. Students will also be exposed to the amazing world of photography and videography, by utilizing our state of the art television studio. **Note: Students who successfully complete this course may qualify for multiple dual credit(s) through NTC when they successfully complete Graphic Communications I, Graphic Communications II and Graphic Communications III.**

## GRAPHIC COMMUNICATIONS II

<b>Course #: 111081/211081</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Graphics I or Instructor Approval</b>	<b>Fee: None</b>
<b>Note: Safety Glasses Required</b>		

**Content:** 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 two, three and four color t-shirt design and creation, laser engraving, vinyl decal design and production, poster design, and a class design/marketing/production projects. Students will also be exposed to the amazing world of photography and videography by utilizing our state of the art television studio. **Note: Students who successfully complete this course may qualify for multiple dual credit(s) through NTC when they successfully complete Graphic Communications I, Graphic Communications II and Graphic Communications III.**

## GRAPHIC COMMUNICATIONS III

<b>Course #: 111091/211091</b>	<b>Credit: 2.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Graphics I &amp; II or Instructor Approval</b>	<b>Fee: None</b>
<b>Note: Safety Glasses Required</b>		

**Content:** This capstone level Advanced Graphic Communications class 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 and digital media industries. 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 by doing hands learning as they work through these production methods. Students in this course will be doing hands-on learning as they work through these production methods. This course may be taken more than once and should satisfy most college/university entrance requirements for general credit **Note: Students who successfully complete this course may qualify for multiple dual credit(s) through NTC when they successfully complete Graphic Communications I, Graphic Communications II and Graphic Communications III.**

NTC Equivalent Class Intro to Printing #10-204-112 (2 credits)	NTC Equivalent Class Photoshop/Image Manipulation #10-204-126 (2 credits)	NTC Equivalent Class Digital Photography #10-204-135 (3 credits)	NTC Equivalent Class Digital Video #10-204-118 (3 credits)
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## BROADCAST/LUMBERJACK PRODUCTIONS

<b>Course #: 124661/224661</b>	<b>Credit: 0.5</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: Graphics I &amp; II or Instructor Approval</b>	<b>Fee: None</b>

**Content:** This course is for those students interested in exploring careers in the Audio/Video Technology and Broadcast Communications fields. Throughout these course students will be learning skills to be a productive team member of a student directed television studio located right in Wausau East. During the semester students will be learning current video journalism techniques to produce entertainment and news packages. Students will be learning skills in equipment safety, trade terminology, camera operation, editing concepts/techniques, proper video capture, audio capture, scripting and lighting techniques. Software programs that the students will be learning with will be: Adobe Premier, File Conversion Software, YouTube, Tricaster Studio, iMovie, Adobe Illustrator, and Adobe Photoshop. High quality student productions may be entered into national video competitions sponsored by PBS Student Reporting Labs. This course may be taken more than once and should satisfy most college/university entrance requirements for general credit.

**Students must have a cumulative 3.0 GPA, teacher recommendation or instructor approval. Note: Students who successfully complete this course may qualify for the following dual credit(s) through NTC when they successfully complete Graphic Communications I, Graphic Communications II and Graphic Communications III.**

NTC Equivalent Class Digital Photography # #10-204-135 (3 credits)	NTC Equivalent Class Digital Video # #10-204-118 (3 credits)
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## SKYROCKET – DIGITAL MEDIA

<b>Course #: 124681/224681</b>	<b>Credit: 0.5</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** *The Skyrocket* is Wausau East's high school newspaper. The newspaper is authored and electronically published in this class. This course will introduce students to the basics of interviewing, journalistic writing, layout design, photography, videography and business management. Students are expected to regularly work outside of class time, covering school events through video, photography and interviews, while they concurrently develop effective problem solving skills. It's student-run, and



student-edited and it expresses students' views about student life. Creating content for *The Skyrocket* provides students with a chance for their voice to be heard, not only among the student population, but by teachers, administration and parents as well. Not a writer? There are many other opportunities such as being a photojournalist by taking pictures, capturing video and writing captions. Or, students can join the staff as the Advertising Editor and sell ads to local businesses.

Layout is also important to the success of the Skyrocket. Students learn and use industry standard Adobe Suite software to layout the pages of the digital newspaper. All student work is expected to be of high quality, rich with content, and conventionally correct aligning with the standards of the English language. This course may be taken more than once as content and leadership positions change yearly and more experienced students are valued and given increased opportunities and responsibilities. Also, joining *The Skyrocket* staff strengthens a future college application because of the skills and talents it develops. **A major component of this course will be collaboration with students in other academic disciplines to create Wausau East's digital newspaper, *The Skyrocket*. This course will be limited to 25 students.**

**Do you ...enjoy working with metal or wood; enjoy applying what you learn to real world problems; want a high paying career without attending college; like working with your hands and mind?**

### **METALS I (Material Processes)**

<b>Course #: 124171</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** This introductory course is designed for students who are interested in exploring the use of metals and material processes and their importance in our society. Student experiences include completing projects which they can take home. Skills learned include precision measurement, blueprint reading, machining (lathe, milling, drill press, grinder, and band saw machines), sheet metal work, properties testing (heat treatment, tensile test, hardness test), stick electrode welding, wire feed welding CNC (computer numeric control) applications, and career research.

### **WOODS I (Material Processes)**

<b>Course #: 224471</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** This introductory course is designed for students who are interested in exploring the use of wood and wood process and their importance in our society. Student experiences include completing projects which the student can take home. Skills learned include precision measurement, blueprint reading and safely running hand, power, and stationary power tools (table saw, band saw, radial arm saw, jointer, planer, router and sanders). In addition, students will gain exposure in planning projects, completing a bill of materials and manufacturing career related research.



## INTRODUCTION TO WELDING

<b>Course #: 124491</b>	<b>Credit: .50</b>	<b>Length: Semester 1</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Metals I (Material Processes)</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** 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 Plasma Cutting will be covered. Students who successfully complete this course will receive transcribed credit 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.

**Students who successfully complete this course may qualify for multiple dual credit(s) through NTC when they complete Introduction to Production Welding.**

NTC Equivalent Class: Introduction to Welding #10-422-101, (2 Credits)
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## Metals II (Machine Tool Manufacturing)

<b>Course #: 224521</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Metals I (Material Processes)</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** This is an intermediate level course designed to further develop machining skills introduced in Metals I. Students will spend time refining skills necessary to be successful in a manufacturing setting. Students will work with the drill press, metal lathe, mill and pedestal grinder to hone their skills and apply concepts learned in the classroom. In addition, learners will gain knowledge in shop safety, layout tools, and procedures. **Note: Students who successfully complete this course may qualify for multiple dual credit(s) through NTC when they complete Machine Tool Manufacturing.**

NTC Equivalent Class: Machine Tool Applications 1A #32-420-631A, (2 credits)
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## ADVANCED MANUFACTURING PROCESSES

<b>Course #: 124281/224281</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite: Metals I (Material Processes), Metals II (Machine Tool Manufacturing), Intro to Welding, Woods I (Rough Framing)</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>		

**Content:** Lumberjack 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 project (designing, planning, ordering, finishing and billing). Students enrolled in Lumberjack 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.

## WOODS II - (FURNITURE MANUFACTURING)

<b>Course #: 224401</b>	<b>Credit: .50</b>	<b>Length: Semester 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Woods I (Material Processes)</b>	<b>Fee: None</b>
<b>Note: Safety glasses, closed toe shoes, and blue jeans or durable work pants required.</b>	 <small>1000 W. Campus Dr. • Wausau, WI 54981</small>	

**Content:** 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 I. 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. **Note: Students who successfully complete this course may qualify for multiple dual credit(s) through NTC when they complete Fundamentals of Furniture Manufacturing.**

NTC Equivalent Class: Fundamentals of Furniture Manufacturing #10-465-119, (2 Credits)
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## **ENGINEERING / PROJECT LEAD THE WAY**

**Do You . . .** plan on going to college; like math and science; enjoy planning projects; enjoy designing and then creating your design; like problem solving; want to become an engineer or architect; want to earn college credit in high school?

**If you have answered “yes” to more than half of these questions, this department may have courses for you! For greater understanding of your interests, see your guidance counselor to review your interest inventory results**



### **Career Opportunities**

Students introduced to engineering principles, concepts and real-world problems in high school are better prepared for college engineering programs.



**ENGINEERING / PROJECT LEAD THE WAY (PLTW)** is a national non-profit organization established to help schools give students the knowledge they need to excel in high-tech fields. Studies of PLTW’s curriculum have proven that PLTW students become the kind of 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. 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 in post-secondary education. Furthermore, the PLTW program addresses national standards in math, science, language arts, and technology, as well as offers students **COLLEGE CREDIT** at articulated institutions.



### **FAB LAB 1: INTRODUCTION TO ENGINEERING, DESIGN AND MANUFACTURING at Wausau West High School**

<b>Course #: 124700</b>	<b>Credit: 0.5</b>	<b>Length: Semester 1</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety glasses Required.</b>		

**Content:** This course is intended for students who are interested in developing knowledge and skills in digital fabrication, technology integration and “making”. The intent of this course is to provide students a hands-on, project-based learning experience that gives them several opportunities to make projects that incorporate various pieces of technology while introducing the world of Engineering and Design. Students will use several software platforms including: 2D and 3D CAD (computer aided design) and CAM (computer aided manufacturing). Students will also have experience with 3D printers, laser engravers, graphic design technology, and CNC (computer numeric control) machining equipment





## **FAB LAB 2: INTRODUCTION TO ENGINEERING, DESIGN AND AUTOMATION at Wausau West High School**

<b>Course #: 224701</b>	<b>Credit: 0.5</b>	<b>Length: Semester 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
<b>Note: Safety glasses Required.</b>		

**Content:** This course is intended as a continuation of Fab Lab 1 and the introduction to Engineering and Design. This class will have an emphasis on robotics, automation and introductory programming and their role in modern manufacturing. Technology integration will be a main focus of the class as students will have experiences with tabletop robotic arms, automated manufacturing lines, and CNC (computer numeric control) machining equipment.

**Note:** Students that take both Fab Lab 1 and Fab Lab 2 can qualify for the opportunity to earn college credit through PLTW. Please contact Theran Peterson, Technology Education Department Chair, for more information.

## **PRINCIPLES OF ENGINEERING (PLTW-POE) at Wausau West High School**



<b>Course #: 124271/224271</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Fab Lab 1 and 2 recommended but not required.</b>	<b>Fee: None</b>
		

**Content:** 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





**CIVIL ENGINEERING & ARCHITECTURE (PLTW-CEA)**  
**(Not offered 2022-23) at Wausau West High School**

<b>Course #: 124481/224481</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite Fab Lab 1 and 2 &amp; PLTW-POE recommended but not required..</b>	<b>Fee: None</b>
		

**Content:** 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 introduction to three dimensional design/architectural software.



**COMPUTER INTEGRATED MANUFACTURING (PLTW-CIM) at Wausau West High School**

<b>Course #: 124251/224251</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite Fab Lab 1 and 2 &amp; POE recommended but not required..</b>	<b>Fee: None</b>
		

**Content:** 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.




## ENGINEERING DESIGN & DEVELOPMENT (PLTW-EDD) at Wausau West High School

<b>Course #: 124261/224261</b>	<b>Credit: 1.0</b>	<b>Length: Year</b>
<b>Year Taken: 11-12</b>	<b>Prerequisite Fab Lab 1 and 2 &amp; one other PLTW class strongly recommended</b>	<b>Fee: None</b>
		

**Content:** 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.

## Computer Science Course Choices

### COMPUTER SCIENCE (WEB)

<b>Course #: 119191/219191</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>
		

**Content:** This course will teach you how to create web pages and web sites. The main focus will be with HTML and CSS. Using notepad\*\* or other html editor you will enter and create simple web pages and professional looking web sites. Founded upon the continued acquisition of 21st Century skills, emphasis will be placed on the practice of self-directed learning, problem solving, critical thinking, communication, presentation and organizational skills.

**Note:** Students who successfully complete this course may qualify for dual credit(s) through NTC.


### COMPUTER SCIENCE (CODING INVESTIGATIONS)

<b>Course #: 119181/219181</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 9-12</b>	<b>Prerequisite: None</b>	<b>Fee: None</b>

**Content:** Students will research, design and create their own coding project assignments utilizing various programming languages. They will be introduced to project management via a mixed learning instructional environment in which they will learn the basic principles and techniques of computer coding. Founded upon the continued acquisition of 21st Century skills, emphasis will be placed on the practice of self-directed learning, problem solving, critical thinking, communication, presentation and organizational skills.



**COMPUTER SCIENCE (INTERMEDIATE PROGRAMMING)**

<b>Course #: 119401/219401</b>	<b>Credit: .50</b>	<b>Length: Semester 1 or 2</b>
<b>Year Taken: 10-12</b>	<b>Prerequisite: Computer Science (CODING INVESTIGATIONS)</b>	<b>Fee: None</b>
		

**Content:** This is a one-semester course designed to cover the fundamentals of the JavaScript Programming Language. Students will learn how to create dynamic looking web sites. The course will take students from simple to complex scripts.

**Note: Students who successfully complete this course may qualify for dual credit(s) through NTC.** Founded upon the continued acquisition of 21st Century skills, emphasis will be placed on the practice of self-directed learning, problem solving, critical thinking, communication, presentation and organizational skills.

*The Wausau School District does not discriminate on the basis of race, age, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex (including transgender status, change of sex or gender identity), or physical, mental, emotional, or learning disability ("Protected Classes").*