

OCONTO HIGH SCHOOL



COURSE DESCRIPTION AND ACADEMIC & CAREER PLANNING GUIDE

**Where a Proud Tradition of Excellence
is the Foundation of Our Future**

Dear Students, Parents, and Staff:

This is the *Course Description and Academic & Career Planning Guide*. It has been prepared to provide students and parents with information about career planning and the course offerings for the school year. By also including career information, the decisions on course selection can serve as an important step in planning a successful and meaningful high school program and eventual career. ALL students need to have the opportunity to pursue post-secondary options as well as successful world of work experiences. Many exciting course opportunities exist at the high school level to help prepare all students for their future.

Learning is a developmental process, beginning at birth and continuing through the life span. When our children enter elementary schools, we often ask the question, “What do you want to be when you grow up?” Encouraging this same type of personal assessment is very important to continue through middle school and into high school. It is understood that the selection of a career will continually change even for adults. What is important is that an on-going focus on assessing career interests helps to make education meaningful for students. Courses can then be selected based upon how they support a personal career plan.

You can assist your student by:

1. Discussing strengths and weaknesses that you see in him or her. This helps your student better identify his/her interests, abilities and talents.
2. Helping with the course selection process.
3. Sharing information with him or her about careers and your work experiences.
4. Making arrangements for your student to talk to other knowledgeable people about careers that are of interest to him or her.
5. Helping to arrange job and/or class shadowing experiences if your student shows interest and wants a “real world” experience.

For the upcoming school year guidelines will continue to be enforced regarding the number of students needed in order to offer courses. Once students register for courses, there will be only limited opportunity for change because the district assigns staff based upon these initial course enrollments. In addition, certain courses may not be able to be offered once final staffing and budget decisions are made. Please choose your courses carefully. Ask staff to help you. This book, containing information on courses and career planning, is a pathway for your future.

PUPIL NONDISCRIMINATION STATEMENT

The Oconto Unified School District does not discriminate on the basis of race, color, religion, national origin, ancestry, creed, pregnancy, marital status, parental status, sexual orientation, sex, (including transgender status, change of sex or gender identity), physical, mental, emotional, or learning disability, or the Boy Scouts of America membership ("Protected Classes") in any of its curricular, co-curricular, pupil services, recreational, student programs and activities, in the acceptance and administration of gifts, grants, bequests, scholarships and other aids, or benefits and services to students. This policy also prohibits discrimination as defined by Title IX of the Educational Amendments of 1972 (sex), Title VI of the Civil Rights Act of 1964 (race and national origin), and Section 504 of the Rehabilitation Act of 1973 (handicap).

If you have any questions and/or concerns, we welcome your phone calls at school. The phone number is (920) 834-7812, ext. 1150.

With best wishes for a successful year,

Adam DeWitt, Principal

Matt Hartin, Associate Principal

Lisa Miller-Allen, School Counselor

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OHS GRADUATION REQUIREMENTS

Subject	Credits
English (must earn 1 cr. each in English 9 and English 10)	4
Social Studies	3
Science (must earn 1 cr. in Biology or Human Biology)	3
Math (must earn 1 cr. in Algebra I)	3
Physical Education (*see page 3)	1.5
Health	0.5
Computer Literacy	0.5
Electives	8.5
TOTAL	24

FOUR YEAR PLAN

Students are strongly recommended to schedule at least one study hall each semester. By taking 7 classes each semester, you will allow yourself to have one study hall each semester. Below are suggested plans:

Freshmen (7.0 credits required)

English 9	1
Social Studies (SS 9 & US Hist A)	1
Science	1
Math	1
Health	0.5
Computer Literacy	0.5
Physical Education	0.5
Electives	1.5

Sophomores (7.0 credits required)

English 10	1
Social Studies (US Hist. B & C)	1
Science	1
Math	1
Careers & Personal Finance	0.5
Physical Education	0.5
Electives	2.0

Juniors (6.5-7.0 credits required)

English	1
Social Studies (World Hist. & Gov)	1
Science	1
Math	1
Physical Education	0.5
Electives	2 or 2.5

Senior (6.0 credits required)

English	1
Recommend more Social Studies courses	
Recommend more Science courses	
Recommend more Math courses	
Electives	5

BASIC SCHEDULING INFORMATION

Credit for all courses at Oconto High School is on a semester basis. All courses receive 0.50 credit per semester, unless otherwise noted in their description. Those classes listed with an asterisk (*) count as a college preparatory credit.

IMPORTANT SCHEDULING INFORMATION

1. *Beginning with the incoming freshman Class of 2017, students may utilize Wis. Stat. sec.118.33 (1) (e), for one-half Physical Education credit.
2. We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.
3. The school has the authority to select the periods that a student will take a class and the teacher for the class.
4. Since all courses have enrollment ceilings, the requests of seniors are given priority over juniors and juniors over sophomores, and so on.
5. The minimum load for all full-time students is 6 credits per year. Students are required to take a minimum of 6 classes each semester. Fifth year students may take only the number of classes needed to meet graduation requirements.
6. Students who will have completed all the graduation requirements by the end of their seventh semester are eligible to apply for exemption from eighth semester attendance. A written request must be given to the Student Services Department or principal by September 30th of the student's senior year.

Policy for awarding credit for Algebra I and Algebra II level courses at Oconto High School

ALGEBRA I Level Courses

OHS offers several ways to earn credit to fulfill the graduation requirement of one (1) credit in Algebra I.

* Successful completion of the 8th grade Algebra I course taught at Oconto Middle School (or other accredited transfer middle school or junior high). High school credit will be earned and added to the OHS transcript, but no grade points will be earned toward the OHS grade point average.

*Successful completion of either Algebra I or Advanced Algebra I taught at Oconto High School (or other accredited transfer middle school or junior high).

*If not successfully completed as a course at OHS, the student may earn credit through successful completion of the course taught through OHS summer school or credit recovery programs.

If a middle school Algebra student decides to re-take Algebra I or Adv Alg I at the high school level, those students cannot receive credit again for retaking the course. Therefore, for those repeating the course, the middle school course and grade will be noted on their OHS transcript, but no credit will be awarded. The math credit and grade points will be awarded upon successful completion of the high school Algebra I or Adv Alg I course.

ALGEBRA II Level Courses

OHS offers several ways for a student to earn credit for a second year Algebra II level course. Only one course may be completed for high school credit.

- * Successful completion of the Challenge Advanced Algebra II course.
- * Successful completion of the Advanced Algebra II course.
- * Successful completion of the Intermediate Algebra w/Applications course. This course is worth one-half (0.50) credit each semester from OHS and if completed with a final year grade of “C” or higher, a student will also earn four (4) credits from Northeast Wisconsin Technical College.

In some special circumstances, an OHS student who has already successfully completed either Adv Alg II or Ch Adv Alg II, may request to take Intermediate Algebra w/Apps in order to earn the NWTC credit. If this request is granted by the OHS administration, and the course is successfully completed, NO credit or grade points will be awarded by OHS, only by NWTC, as the student has already earned Algebra II level credit from OHS. Additionally, since the student is not earning OHS credit, the Int Alg w/Apps course must be a student’s seventh (7th) course, so that the student is still a full-time student with six (6) credit-bearing courses at OHS.

TRITON

TRITON is the name for OHS's distance learning program. This system allows Oconto to receive or send a class through a TV network during each period of the day. OHS students have the ability to take classes through TRITON that wouldn't ordinarily be available.

Students are encouraged to sign up for TRITON classes but they must understand that:

1. **Once a student commits to a TRITON class, he/she is obligated to follow the TRITON drop deadline and will be charged the cost of the course if dropped after the deadline.**
2. One-semester TRITON classes may be moved from one semester to another. Students who sign up for a semester class must be flexible to change that class to the opposite semester if needed.
3. Enrollment in a TRITON class requires a special commitment. Students must be able to work independently, in addition to exercising good judgment in the area of conduct. Students and parents will sign a contract agreeing to follow the TRITON rules and regulations.
4. The principal must approve all student requests for TRITON coursework.
5. Students **MUST** attend a mandatory informational TRITON orientation meeting.

CHALLENGE (HONORS) PROGRAM

This program provides an opportunity for students who are gifted or talented in a curriculum area to participate in a more in-depth learning environment. Challenge classes emphasize greater student involvement in all areas of learning, with special opportunities for creative and mature approaches to academics.

Challenge programs conclude with classes during the senior year that provide an opportunity for students to receive college credit for advanced skills and knowledge in an academic area. Also, students who establish a record of excellence in the Challenge Program may earn accelerated grades above the traditional 4.00 for specific classes. Honor grades will extend the grading scale for Challenge Program classes to a 5.00 scale.

Enrollment in a Challenge Program course however, does not guarantee honor grades.

Students who are nominated for the Challenge Program will be assessed for admission to the program, and those individuals who demonstrate the necessary abilities and aptitudes will be notified prior to scheduling.

START COLLEGE NOW (formerly Youth Options for Technical Colleges)

Wisconsin's Start College Now program allows public high school juniors and seniors who meet certain requirements to take post-secondary courses at a Wisconsin technical college. Approved courses count toward high school graduation and college credit.

Under Start College Now, a student does not pay for a technical college course if the school board determines the course qualifies for high school credit and is not comparable to a course already offered in the school district. If approved by the school board, the student can receive both high school and technical college credit upon successful completion of the course. A student who successfully completes their high school graduation requirements earns a high school diploma, regardless of whether requirements were met while attending a high school or technical college. If a student fails a Start College Now course, parents are responsible for reimbursing the school district for the cost of the course and any books or materials.

Please note: For 1st semester the following academic year, applications need to be submitted to Student Services on or before March 1, and 2nd semester applications need to be submitted to the Student Services on or before October 1. Forms are available in Student Services.

EARLY COLLEGE CREDIT in HIGH SCHOOL (formerly Youth Options for 4 yr. college)

Wisconsin's Early College Credit Program allows public high school juniors and seniors who meet certain requirements to take post-secondary courses at a UW-institution, one of the state's participating private non-profit institutions of high education, or tribally-controlled colleges.

Under EarlyCollege Credit, a student does not pay for a college course if the school board determines the course qualifies for high school credit and is not comparable to a course already offered in the school district. If approved by the school board, the student can receive both high school and college credit upon successful completion of the course. A student who successfully completes their high school graduation requirements earns a high school diploma, regardless of whether requirements were met while attending a high school or college. If a student fail an Early College Credit course, parents are responsible for reimbursing the school district for the cost of the course and any books or materials.

Please note: for 1st semester the following academic year, applications need to be submitted to Student Services on or before March 1, and 2nd semester applications need to be submitted to the Student Services on or before October 1st. Forms are available in Student Services.

EMPLOYABILITY SKILLS PROGRAM

The Employability Skills Program is available to juniors and seniors with the intent of providing a focus on improving the “soft” skills that are necessary in all employees on the job. The employability skills in this program have been identified through the U.S. Department of Labor’s Secretary’s Commission on Achieving Necessary Skills (SCANS) in partnership with educators, business, and industry and labor representatives.

In order to participate in these programs, students are responsible for the following:

- Completing an application through the Dean of Students
- Securing a position at a credible work site
- Obtaining a work permit
- Maintaining attendance and grades
- Abiding by the rules of the employer and school-to-work group
- Students will only be excused for attendance for scheduled work experience during that time. This means, for example, if they have an 8th hour study hall they can only be excused from attending the 8th hour study hall if they are actually working during that time.

The student will be monitored regularly with visits by staff to the work site to review progress with the employer. Employers will complete a work site evaluation on a quarterly basis for a pass/fail grade. ½ credit will be awarded each semester for completion of this program.

YOUTH APPRENTICESHIP PROGRAM/CO-OP

- 3 credits (per year)
- Open to juniors and seniors
- A one or two year program.

Youth apprenticeships are available in the following areas: Business, Agriculture, Auto Technology, Auto Collision, Finance, Health, Information Technology, and Printing. The student is exposed to the interview process, and if chosen, will work at that site for one or two years. In addition, related instruction specific to the skills needed in these areas are taught by NWTC or private sector individuals.

In addition to credits towards graduation, students receive a Certificate of Occupational Proficiency from the Governor’s Work-Based Learning Board and advanced standing in their program at technical colleges around the state. To sign up for this program please contact the Dean of Students for an application.

NOTE: Students who apply need to sign up for a normal load of classes at OHS. When accepted into the program, your OHS class schedule will be modified.

INDEPENDENT STUDY COURSES

Under certain specific conditions, a student may be allowed to take a course as an Independent Study. The student must be academically strong and permission must be received from the course instructor AND high school principal. See **Student Services** for more specifics.

Information regarding Northeast Wisconsin Technical College (NWTC) courses and credit.

Advanced Standing courses are taught by high school teachers using high school curriculum determined to be a close match to an NWTC course. A student must earn a grade of “B” or better to receive Advanced Standing. Advanced Standing courses may earn a student the opportunity to skip an introductory level course in their program and advance to the next level. Advanced Standing agreements are transferrable to all schools within the WI Technical College System.

Transcribed Credit courses are taught by high school teachers with WI Technical College System certification. NWTC curriculum and assessment methods are used. Student grades are posted to an official NWTC transcript. The grade a student receives in a transcribed course becomes part of the student’s official college record. A grade of “C” or better is required so that students will not be penalized for future financial aid. Transcribed credit agreements are transferrable to other WI technical colleges and may transfer to four-year universities.

OHS Advanced Standing courses:

AP Chemistry (=NWTC General Chemistry)

AP Physics (=NWTC College Physics 1)

OHS Transcribed Credit courses:

Graphic Art & Design II / Digital Illustration

Digital Photography

Photo Shop Fundamentals

Microsoft Word & PowerPoint

Microsoft Excel

Micro Software --Intro

English Composition I

Oral/Interpersonal Communication

Intermediate Algebra w/Apps

Machine Tooling 1/Cutting Tool Technology

Mechanical Auto Cad Drafting

Automation I & II– Control Logic & Motor Control

Introduction to Robotics/College 101

NWTC Welding

NWTC CNC Programming & Manual Machining

POST HIGH SCHOOL PLANNING

Most occupations will require some form of schooling beyond high school. Students should also have a basic knowledge of the capabilities of a computer and possess some ability to use computers for self-instruction.

Whether your plans include additional education or employment, you should keep in mind the following factors that post high school admission personnel and employers generally depend upon:

1. **Attendance** and **tardy** records.
2. The quality of the student's course selection and completion.
3. The results of scholastic **aptitude** and **achievement** tests.
4. **Activities**, both in and out of school.
5. The personal **recommendations** of your principal, counselor, and teachers.
6. High school **scholastic record** as reflected in terms of grade point average, (G.P.A.), class rank, and difficulty of program.

Students and parents should give serious consideration to the selection of courses. Taking classes that are the easiest, or classes that your friends are taking, or avoiding a class because the teacher has a reputation for being hard, are not the wisest reasons for course selections. Remember, high school classes should provide you with a broad background of knowledge that will allow you to function in tomorrow's world. The required classes should give you the basic background necessary for success. Your classes should provide you with concentrated study in the area(s) that match your future goals. Whether you plan on working full-time after high school, or continuing your education at a post-secondary institution, make the decision to positively apply yourself to completing your high school program, and open the door to a bright future with many possibilities.

STUDENTS PLANNING FOR POST SECONDARY EDUCATION

Students planning to attend either a technical college or a university must pay very careful attention to admissions requirements prior to selecting high school courses. Depending upon the college, the requirements may be more than the minimum requirements needed to graduate from high school. **Admission requirements vary considerably depending upon the college or university that the student plans to attend and the major field of study that he/she plans to pursue. It is essential that students and parents check specific college entrance requirements.** ACT/SAT test scores are required by the majority of colleges/universities. The following samples are admission standards at various institutions.

SAMPLES OF ADMISSION STANDARDS

University of Wisconsin System

<u>Subject</u>	<u>Credits</u>
English	4
Mathematics	3-4
Algebra I	
Geometry	
One upper level course	
Science	3-4
Social Studies	3-4
College Prep Electives	4
From above or foreign language, fine arts, computer science and other academic areas	

Some universities have slightly different requirements.

Nation's Top Universities

<u>Subject</u>	<u>Credits</u>
English Language Arts*	4
Mathematics	3-4
Science	3-4
Social Studies**	3-4
Foreign Language***	3-4

* Intensive work in writing

** Includes American & European History

*** At least one foreign language

Best preparation includes the above taken at the Honors or AP level when possible.

ACT or SAT test

Wisconsin's Technical Colleges

Technical college programs have admission standards. Some programs have a waiting list. Apply early and seek your counselor's advice regarding program. The following are recommended high school courses for adequate preparation for technical college programs. Some programs require an ACT test.

<u>Subject</u>	<u>Credits</u>
English	4
Mathematics	3
Science	3
Social Studies	3
Technical Courses	3-4

Wisconsin's Private Universities

<u>Subject</u>	<u>Credits</u>
English Language Arts	4
Mathematics	3-4
Science	3-4
Social Studies	3-4
Foreign Language	2-4

Either ACT or SAT scores

Strong academic record with preference given to students taking challenging courses.

Decisions based primarily on the high school record with emphasis placed on grades earned within the context of courses taken.

ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at eligibilitycenter.org.

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an ACT or SAT score that matches your core-course GPA.

CORE COURSES

Visit eligibilitycenter.org/courselist for a full list of your high school's approved core courses. Complete 16 core courses in the following areas:

DIVISION I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.

ENGLISH	MATH (Algebra I or higher)	NATURAL/PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

DIVISION II

ENGLISH	MATH (Algebra I or higher)	NATURAL/PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your grade-point average (GPA) based on the grades you earn in NCAA-approved core courses.

- DI requires a minimum 2.3 GPA.
- DII requires a minimum 2.2 GPA.

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about sliding scales at ncaa.org/student-athletes/future/test-scores.

TEST SCORES

Take the ACT or SAT as many times as you want before you enroll full time in college, but remember to list the NCAA Eligibility Center (code 9999) as a score recipient whenever you register to take a test. If you take a test more than once, send us all your scores and we will use the best scores from each test section to create your sum score. We accept official scores only from the ACT or SAT, and won't use scores shown on your high school transcript.



HIGH SCHOOL TIMELINE

GRADE 9

Plan

- Start planning now! Take the right courses and earn the best grades you can.
- Ask your counselor for a list of your high school's NCAA core courses to make sure you take the right classes. Or, find your high school's list of NCAA core courses at eligibilitycenter.org/courselist.

GRADE 10

Register

- Register for a Certification Account or Profile Page with the NCAA Eligibility Center at eligibilitycenter.org.
- If you fall behind on courses, don't take shortcuts to catch up. Ask your counselor for help with finding approved courses or programs you can take.

GRADE 11

Study

- Check with your counselor to make sure you are on track to graduate on time.
- Take the ACT or SAT, and make sure we get your scores by using code **9999**.
- At the end of the year, ask your counselor to upload your official transcript.

GRADE 12

Graduate

- Take the ACT or SAT again, if necessary, and make sure we get your scores by using code **9999**.
- Request your final amateurism certification after April 1.
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation.

Core Courses

This simple formula will help you meet Divisions I and II core-course requirements.

$$4 \times 4 = 16$$

- + 4 English courses (one per year)
- + 4 math courses (one per year)
- + 4 science courses (one per year)
- + 4 social science courses (one per year)
- = **16 NCAA CORE COURSES**

For more information:

ncaa.org/playcollegesports
eligibilitycenter.org

Search Frequently Asked Questions

ncaa.org/studentfaq

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CLASS RANK

Students and parents should be certain to check the specific rank-in-class requirements for each individual post-secondary school of their choice, as there are certain variations from campus to campus.

For example, the University of Wisconsin campuses usually require students to rank in at least the top 50% of the class. Some campuses are more selective with the majority of their students ranking in the top 25% of the class. The University of Wisconsin 2-year campuses will accept students in the top 75% of the class. In some cases, a lower class rank will be accepted in combination with ACT/SAT scores.

Most of the twenty-one independent colleges in Wisconsin require a rank in the top 50% of the class. Again, there is some variation in this requirement for the individual campuses so students should consult their high school counselor or college admissions counselor for specific requirements.

ATTENTION STUDENTS: On the following pages you will find the course name followed immediately by the course number (semester 1 number/semester 2 number), length of course, whom courses are open to, any prerequisites; and course descriptions. Students, please note that where you find only one course number behind a given course, it applies to either semester. Placement in that course will be determined by the number of students electing to take that course.

ART

Art classes give the student opportunities to express their ideas creatively and gain personal satisfaction through individual accomplishment.

We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.

ART FOUNDATIONS – 7825

- Offered both 1st & 2nd semester (students may take ONLY one semester, and then move on to another art course such as Drawing or Ceramics).
- This course is open to freshmen, sophomores, juniors and seniors.

This is an introductory art course in which the elements and principles of art will be stressed and practiced in two and three-dimensional forms. Areas covered will be drawing, color, painting, printmaking, and ceramics.

DRAWING I - 7576

- One semester (offered first or second semester).
- This course is open to freshmen, sophomores, juniors and seniors.

Prerequisite: Art Foundations must be completed before Drawing.

This course will instruct students in all styles of drawing including contour, gesture, figure, perspective, and imaginative. Students will solve various problems through the use of various media: pencil, charcoal, pen & ink.

DRAWING II -7577

- One semester
- This course is open to sophomores, juniors and seniors.

Prerequisite: Successful completion of Drawing I and consent of instructor.

This course will explore pen and ink, wash drawing, scratch board, mixed media, as well as colored pencil and oil pastel. Further development of gesture, figure, still life and nature drawing will be stressed.

CARTOON ART – 7555

- One semester
- This course is open to freshmen, sophomores, juniors and seniors.

Prerequisite: Successful completion of Art Foundations.

Students will learn to draw characters, then use drawing and writing to create stories or develop the points of an idea. Topics covered will be principles of cartooning, drawing and developing characters, history of cartooning, and tools and colors in cartooning.

PAINTING - 7600

- One semester
- This course is open to sophomores, juniors and seniors.

Prerequisite: Completion of Drawing I.

This course will deal with the medium of painting watercolor, tempera and acrylic. The understanding of color theory, subject matter, and composition of paintings will be covered.

CERAMICS – 7650

- One semester
- This course is open to sophomores, juniors and seniors.
- **Students are responsible for purchasing materials for projects.**

Prerequisite: Art Foundations must be completed before taking Ceramics.

This course will take the student through the history, terminology, and techniques of hand building, throwing on the wheel and glazing of pottery. Function, design and creativity will be stressed to solve the problems of pottery construction.

ADVANCED CERAMICS – 7651

- One semester
- This course is open to juniors and seniors.
- **Students are responsible for purchasing materials for projects.**

Prerequisite: Successful completion of first semester Ceramics and consent of instructor.

This course will stress wheel throwing concentrating on functional pottery; including sets of mugs and bowls, bowls with covers, and bottle shapes. Hand building will be covered as well as ceramic sculpture with an emphasis on large pieces.

ADVANCED ART FOUNDATIONS - 7752

- One semester
- This course is open to sophomores, juniors and seniors.

Prerequisite: Successful completion of Art Foundations and Drawing.

This class is designed for the student who enjoys working in a variety of media. Emphasis will be on advanced techniques and a search for a personal style while studying various artists and their techniques.

CALLIGRAPHY – 7725

- One semester
- This course is open to sophomores, juniors and seniors.
- **Students are responsible for purchasing materials for projects.**

This course will introduce the student to the art of lettering with a pen. Beginning with single letters and monograms, the student will progress to the 4 major letter styles: Roman Round Hand, Gothic, Uncial, and Chancery Cursive.

GRAPHIC ART & DESIGN – 7701

- One semester
- This course is open to freshmen, sophomores, juniors and seniors.
- This class is limited to 16 students per class.

Students are responsible for purchasing materials for personal projects.

This course will instruct students in graphic design production. Adobe Illustrator will be used to develop skills in typography, layout and design, paste-up, process photography, finishing operations, and planning and estimating. Emphasis is on successfully completing orders from the community, organizations, and clubs. Projects may include clothing, mugs, bumper stickers, window decals, hats, plates, banners, posters, etc.

GRAPHIC ART & DESIGN II / ILLUSTRATOR FUNDAMENTALS: - 7702

- One semester
- This course is open to juniors and seniors.
- This class is limited to 16 students per class.
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC .**

Students are responsible for purchasing materials for personal projects.

Prerequisite: Successful completion of Graphic Art and Design I and consent of instructor.

This course (**10-111-161**) will instruct students in the Macintosh Illustration course. Students will investigate this work area, understand selecting and aligning, work with creating and editing shapes, learn how to transform objects, work with pen and pencil tools, understand color and painting, understand layering, learn about perspective, understand how to use blends and brushes, and investigate how to apply effects. Projects will be assigned to build the student’s graphic design portfolio in preparation for assessments or employment.

DIGITAL PHOTOGRAPHY – 7676

- One semester
- Open to sophomores, juniors and seniors
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC**

This course will cover capturing digital images, exposure, shutter, speed, aperture, composition, camera operations, lenses, lighting, camera accessories, types of photography, photo challenges, importing, editing, and storing images. Access to a digital camera is required.

PHOTO SHOP FUNDAMENTALS - 7677

- One semester
- Open to sophomores, juniors and seniors
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC**

Students in this class will perform raster Image Editing. Course content covers functions of Adobe Photoshop. Create image selections, extractions and composite files using Adobe software, and apply common photo adjustments using fundamental design solutions, creating composite images.

ART DECO - 7560

- One semester
- This course is open to freshmen, sophomores, juniors, and seniors.
- **Students are responsible for purchasing some materials for projects.**

In this course students will learn about functional art - - artwork created for both use and decoration. It may include working with metal/foil, wood, glass painting, textiles, interior design, plaster, wallpaper/scrapbooking, and furniture.

ART DECO II - 7561

- One Semester
- This course is open to sophomores, juniors, and seniors.
- **Students are responsible for purchasing some materials for projects.**

Prerequisite: Successful completion of Art Deco.

In this course students will learn about functional art - - artwork created for both use and decoration. It may include, repurposing items, found items, plaster, glass fusing, and other decorating materials.

BUSINESS

Business courses prepare students for entry into and advancement in jobs within business, and equally important, they prepare them to function intelligently as consumers and citizens in a business economy.

We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.

ACCOUNTING - 5021/5022

- Two semesters
- Open to sophomores, juniors, and seniors.

This course is designed for students interested in business and the ability to interpret important information. Financial accounting examines accounting concepts, the accounting model, measurement processes, financial statements, financial analysis, the accounting cycle, monetary and fixed assets, inventory, current and long-term liabilities and equity structures of partnerships, proprietorships and corporations. Your coursework will be based online through Century21 Accounting, preparing students for the use of technology in accounting in a business setting.

ACCOUNTING II – 5001/5002

- Two semesters
- Open to juniors and seniors.

This course is aimed at students interested in operating a business and/or holding a leadership position in business where interpreting company financial reports is vital. Accounting II is the study of Managerial Accounting, which continues to emphasize the role of accounting in management decision making. Topics such as Activity Based Costing and Management (ABC & ABM), cost behavior and classification, cost volume profit analysis, short term decision making, budgeting, performance measurement, and cost control are included. Coursework and student materials will be accessed through an online platform to best prepare students for the environment in which they will need to work.

CAREERS & PERSONAL FINANCE - 5353

- One semester
- This course is required for sophomores
- Open to juniors and seniors who have not taken this course.

In compliance with the 2017 Wisconsin requirement for (ACP) Academic and Career Planning and the growing awareness that students need education in personal finance, Oconto High School has developed a sophomore class that will combine career planning with personal financial education. Our goal is to give each student a personal analysis of their skills, interests, personality traits, strengths, challenges and educational goals so that they can make informed academic and career path choices. In addition, students will explore careers to gain an understanding of what is required for each career path.

In regard to personal finance, students will be utilizing a real-world simulation of budgeting, saving, investing, credit, interest and how to pay & manage bills. They will learn the consequences of late payments and poor choices as well as the rewards of good planning and maintaining a budget.

In addition, students will have to design a resume, cover letter and practice interview skills. They will be given tools to research colleges, financial aid, cost analysis, as well as job search skills for those directly entering the workforce.

ENTREPRENEURSHIP – 5202

- One semester
- Open to juniors and seniors.

This course provides background and skills necessary to succeed as an entrepreneur. The fundamentals of starting and operating a business, developing a business plan, obtaining financing, marketing a product or service and developing an effective accounting system are among the topics that will be covered. Students will create and develop their own business proposal in fine detail that will be presented to students and selected community members.

MARKETING PRINCIPLES - 5327

- One Semester
- This course is open to sophomores, juniors and seniors.
- **If this course is successfully completed with a grade of "C" or higher, students can receive 3 credits from NWTC for course 10-104-110.**

This course will cover marketing management, market segmentation, market research, consumer behavior, product decisions and management of distribution, pricing, and promotional decisions for strategy planning.

Students may qualify for transcribed credit from NWTC. A transcribed credit agreement means that an actual technical college course, using college textbooks and materials, is being taught at Oconto High School. You will earn high school credit, and if you meet the conditions of the agreement, you will also be awarded college credit at the same time. The college grade and credits will be recorded on both an OHS transcript and an NWTC transcript.

COMPUTER SCIENCE

We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.

BASIC COMPUTER LITERACY – 5701

- One semester
- This course is open to freshmen.

Prerequisite: A failing grade in middle school computer studies and/or the recommendation of the middle school computer studies instructor.

This course is geared toward those students who have struggled in earlier computer classes. This course would be taken in lieu of Computer Literacy. It will introduce computer topics similar to Computer Literacy, though in slightly less detail.

COMPUTER LITERACY – 5675

- One semester
- This course is required for all freshmen.

This course will cover computer topics such as hardware, application software, operating systems, the Internet and World Wide Web, search skills, file and folder management, word processing, presentation software, spreadsheet construction, database development, and web page creation. The class will also give short introductions to programming courses offered at OHS including game programming.

INTRODUCTION TO PROGRAMMING – 5650

- One semester
- This course is open to freshmen, sophomores, juniors and seniors.

This course introduces students to programming using Visual Basic. It is an introductory course and is appropriate for students with little, if any, previous programming experience. Examples of programming topics covered include: objects, properties, variables, expressions, statements, decision-making, looping, formatting, arrays, etc. This course is a prerequisite for Advanced Computer Programming.

ADVANCED COMPUTER PROGRAMMING - 5575

- One semester
- This course is open to sophomores, juniors and seniors.

Prerequisite: A grade of "C" or better in Introduction to Programming.

This course introduces students to programming using Java. This is the language used for the AP exam. Examples of programming topics covered include: entering, compiling, and running a program; variables; strings; decision-making and loops; data and functions; arrays, templates, and vectors; etc.

SENIOR LEVEL COMPUTER STUDIES – 5525

- One semester
- This course is open to juniors and seniors.

Prerequisite: A grade of "C" or better in Computer Literacy.

This course is a contract based class where students will choose their topics of interests from a vast array of topics including: Advanced Microsoft Office Applications; Advanced Publisher Applications; Photoshop Applications; Visual Basic Programming; Java Programming; Game Programming; Website Design; Video Editing; and several others. Students will be required to complete four “contract” lessons per quarter and an individualized exam at their own pace and order.

WEB SITE DESIGN - 5553

- One semester
- This course is open to freshmen, sophomores, juniors, and seniors.

This is a course that presents the basics and concepts of developing and maintaining a web site. Students will use web site editors such as FrontPage and Dreamweaver, and some programming techniques using simple html tags. Students will also utilize cloud based platforms such as Wix, Weebly, Wordpress, and GoogleSites. Web site design concepts introduced include effective use of color, images, animation and layout, as well as topics such as navigation. Students will learn to create a basic home page, advanced navigation and presentation techniques.

COMPUTER GAME PROGRAMMING - 5552

- One semester
- This course is open to freshmen, sophomores, juniors, and seniors

Ever wonder how simple games on the Internet are developed? You will learn how to create these games using C++ and The Games Factory 2. The class will teach you the tricks and techniques that you will need to create simple 2D games all the way to more advanced arcade type games. All games will be burned to a CD, and be available to students taking the course.

DIGITAL IMAGING – 6400

- One semester
- This course is open to freshmen, sophomores, juniors, and seniors.

Enroll in this course and enter the new era of producing images by digital technology. You will learn to use digital cameras, scanners, and computers. This class will utilize Adobe Photoshop, Microsoft Publisher, and Video Studio 12 to create several projects such as calendars, cards, brochures, flyers, still image movies, and more. This is a fun class to show your creative side using a computer and many useful software programs. There will also be opportunities to learn media production.

DIGITAL GRAPHIC DESIGN - 6404

- One semester
- This course is open to all students who have successfully completed Digital Imaging.

Prerequisite: A passing grade in Digital Imaging.

Did you like the projects you created in Digital Imaging? This course will build upon the concepts learned in Digital Imaging. Advanced digital concepts will be used to create several projects which will include: still image videos, DVD/CD labels, DVD case inserts, production of school videos (sports, plays, concerts, etc...), advanced picture editing, poster creation, t-shirt designs, a semester long photo book, and many more.

VIDEO PRODUCTION – 9546

- One semester
- This course is open to freshmen, sophomores, juniors and seniors.

During the first quarter the students will learn how to produce audio/video projects using camcorders and editing equipment. During the second quarter the students will produce audio/video segments for home and school use.

MICROSOFT WORD & POWERPOINT – 5655

- One semester
- This course is open to juniors & seniors
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC - course numbers: (Micro Word – 10-103-121), (Micro Word Part II – 10-103-122), (Micro PowerPoint Intro – 10-103-151)**

MICROSOFT WORD: In this course students will learn word processing basics including: creating, revising, formatting, printing; sections, tabs, multi-page numbering; manipulating text; creating headers/footers; creating/formatting tables, graphics; and merging documents. **MICRO WORD II:** This includes advanced word processing features including working with headers/footers, inserting quick parts, themes, styles, sort and select; footnotes/endnotes, images, shapes, shared documents; specialized tables and indexes; forms; and sharing data.

MICRO POWERPOINT: Students will learn presentation skills using: graphics, diagrams, design themes, sounds, animations, slide transitions, and integration with other software.

MICROSOFT EXCEL: 5660

- One semester
- This course is open to juniors & seniors
- **If this course is successfully completed with a grade of “C” or higher, students can receive two (2) credits from NWTC – course number: (Microsoft Excel -10-103-131) (Microsoft Excel Part II- 10-103-132)**

Students will learn how to create a worksheet, enhancing worksheet appearance, moving and copying data, using formulas and functions, creating charts and using clip art. Window experience improves success.

MICRO: EXCEL PART 2: will include advanced formatting techniques and functions, working with templates, collaborating with multiple Excel users, creating macros, Excel’s database features and analysis tools.

MICRO SOFTWARE -- INTRO: 5665

- One semester
- This course is open to juniors & seniors
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC – course number: 10-107-160**

This course will include: mouse techniques, file/program management using Windows, formatting documents using Word to include tables/mail merge, creating slide shows using PowerPoint to include graphics/animation, and generating spreadsheets using Excel to include charts/macros.

ENGLISH

**** PLEASE NOTE ****

Any failed required English course must be retaken in summer school, or as a Credit Recovery course equivalent before a student may enroll in the next level.

***AP (ADVANCED PLACEMENT) ENGLISH 12 - 201H/202H**

- Two semesters
- This course is open to seniors who have successfully completed Challenge English classes.

The purpose is to provide seniors with a university-level course to prepare for the Advanced Placement Test for English Literature and Composition. This course provides the opportunity for students to receive college credit for their advanced English studies. Students will engage in the careful reading and critical analysis of literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students will consider a work's structure, style, and themes as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone. The course will include representative works from various genres and periods.

***ENGLISH COMPOSITION I – 2236**

- One semester
- Instructor approval.
- This course is open to juniors and seniors.
- **If this course is successfully completed with a grade of “C” or higher, students can receive 3 credits from NWTC.**

Students develop knowledge/skills in planning, organizing, writing, and editing. Students will also analyze audience/purpose, use elements of research, format documents using standard guidelines, and develop critical reading skills.

Students may qualify for transcribed credit at NWTC. Transcribed credit agreements mean that an actual technical college course, using college textbooks and materials, is being taught at Oconto High School. You will earn high school and, if you meet the conditions of the agreement, will be awarded college credit at the same time. The college grade and credits will be recorded on both an OHS transcript and a technical college transcript.

ORAL INTERPERSONAL COMMUNICATION – 2237

- One semester
- Instructor approval.
- This course is open to juniors and seniors.
- **If this course is successfully completed with a grade of “C” or higher, students can receive 3 credits from NWTC.**

This course will cover the communication process, perception and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation.

Students may qualify for transcribed credit at NWTC. Transcribed credit agreements mean that an actual technical college course, using college textbooks and materials, is being taught at Oconto High School. You will earn high school and, if you meet the conditions of the agreement, will be awarded college credit at the same time. The college grade and credits will be recorded on both an OHS transcript and a technical college transcript.

***PREP ENGLISH 12 - 2023/2024**

- Two semesters
- This course is open to seniors who plan to attend a four year college who are not enrolled in AP.

The purpose is to provide a wide range of experiences in reading and composition skills in order to be successful in college and university courses. Heavy emphasis is placed on reading and analysis of quality literature. Composition activities include individual responses, summaries, literary analyses, and the research paper. Works from various genres and periods, works of recognized literary merit, will provide the focus of reading and composition activities.

ENGLISH 12 – 2233/2234

- Two semesters
- This course is open to seniors who are not in AP English 12 or Prep English 12.

This class is designed to enhance written and verbal communication skills. Composition activities will focus on narrative, expository and technical and career related writing. Projects and vocabulary will support both reading and communication skills. Works from various genres and works of recognized literary merit will support the development of reading skills. Individual and collaborative projects will provide real-life skills.

***AMERICAN LITERATURE I – 2074**

- First semester
- This course is required of juniors.

This course is aligned with the Common Core standards and is designed to expose students to the primary sources and documents beginning with Native American Literature and ending with the Civil War. Students will follow the Common Core standards of reading, writing, speaking, and listening for grade 11.

***AMERICAN LITERATURE II – 2078**

- Second semester
- This course is required of juniors.

This course is aligned with the Common Core standards and is designed to expose students to the primary sources and documents beginning with Civil War Literature and ending with the age of Modernism. Students will follow the Common Core standards of reading, writing, speaking, and listening for grade 11.

***CHALLENGE ENGLISH 11 – 220H/221H**

- Two semesters
- This course is open to juniors who have been approved for the Challenge English Program.

This is a full year course in which students will take an in-depth look at American Literature. Beginning with the colonial time period and progressing through modern times, a variety of texts will be studied including poetry, drama, short stories, and novels, as well as non-fiction texts. Students will be held to a higher standard for writing and reading expectations within this class.

***CREATIVE WRITING - 2150 (English Elective)**

- One semester
- This elective is open to sophomores, juniors, and seniors.

This course focuses on three units: poetry, memoirs, and short stories. Students will create three projects, one for each unit, as well as a final historical fiction children's story, in book form, to be donated to a local school or library. Students will also have ample opportunity to create "free writing" samples of their choosing that will be shared with and edited by their peers.

***CHALLENGE ENGLISH 10: WORLD LITERATURE – 275H/300H**

- Two semesters
- This course is required of all sophomores who have successfully completed Challenge English 9.

This course follows the Common Core standards and contains six specific units that cover primary sources/documents, fiction, and nonfiction that focus on authors from around the globe. Within the six units, students will also read current memoirs and modern dystopian fiction. Each unit has two performance tasks for the student that includes essays/writing tasks, and speeches/presentations all of which will include MLA citations. The course will also include two rounds of literature circles and a research project based on the novels/memoirs.

***ENGLISH 10 –WORLD LITERATURE– 2350/2325**

- Two semesters
- This course is required of all sophomores who have successfully completed English 9.

This course follows the Common Core standards and contains six specific units that cover primary sources/documents, fiction, and nonfiction that focus on authors from around the globe. Within the six units, students will also read current memoirs and modern dystopian fiction. Each unit has a performance task for the student that includes essays/writing tasks, and speeches/presentations all of which will include MLA citations.

***CHALLENGE ENGLISH 9 – 247H/248H**

- Two semesters
- This course is open to freshmen who have been approved for the Challenge English program.

Students will develop a variety of skills in preparation for a high school career of advanced coursework. Assignments will include literary analysis, various styles of writing, speaking and listening, as well as presentations. Topics of study will include poetry, short stories, novels, plays, speeches, and films. Students in Challenge English 9 should expect to be held to a higher standard of effort.

***ENGLISH 9 – 2475/2500**

- Two semesters
- All freshmen must enroll and successfully complete this course, if not enrolled in Challenge English 9.

The student develops academic skills including organization, note taking, study habits, testing, and library skills. Reading and writing skills are learned and practiced in conjunction with short stories, essays, poetry, drama, novel, and film.

FOREIGN LANGUAGE

To meet the challenge of ever-increasing global connections, students must possess language skills to communicate with other cultures and to understand others' behavior patterns. In order to be productive of another language, students, also, study the English language and develop real-life uses in the areas of sentence structure, usage, and vocabulary similarities and differences. The goal is for all students to learn how, when, and why to say what to whom.

We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.

***SPANISH I – 7171/7172**

- Two semesters
- A "C" average in English is recommended.

No prerequisite required.

Each student develops skills in listening to, reading, speaking, and writing Spanish. Practice is primarily repeating and imitation of these phrases in addition to a study of grammar rules. Cultural aspects of the countries where Spanish is spoken are studied through music, lectures, and videos.

***SPANISH II – 7151/7152**

- Two semesters
- A "C" average in Spanish I is required

Prerequisite: Spanish I

A review of Spanish I is the beginning of the course to solidify skills from that level. More extensive study is conducted dealing with grammar rules, comprehension, writing and speaking skills. Geographic and cultural aspects will continue to be studied with an emphasis on literature, music, and art.

***SPANISH III – 7121/7122**

- Two semesters
- A "B-" average in Spanish II is required.

Prerequisite: Spanish II

A review of Spanish II and I is the beginning of the course. Students will add to their Spanish vocabulary in order to speak and write more fluently. Literary works, art, music, and other cultural aspects of the Spanish and Hispanic peoples will be an integral part of this course.

***SPANISH IV – 7123/7124**

- Two semesters
- A "B-" average in Spanish III is required.

Prerequisite: Spanish III

Students will be able to understand written materials on a wide variety of topics and use extensive listening and speaking strategies to understand authentic materials. Students will also be required to make presentations on information, concepts, and ideas to an audience of listeners or readers solely in the Spanish language

MATH

Mathematics is an important subject, which we all use on a daily basis. The OHS math department offers a wide range of courses to meet the needs of the college and technical college bound student, as well as the student preparing for the world of work. It is recommended that students not take the minimum math required, but as much math as they can handle. With a strong math background you can "open doors" to a rewarding and profitable career.

PRE-ALGEBRA – 1325/1326

- Two semesters
- This course is open to freshmen with the recommendation of the 8th grade math teacher.

This class is designed to prepare students for algebra. The class will practice basic math operations as they apply to real life situations as well as introducing the principles of algebra and geometry.

***ALGEBRA I – 1321/1322**

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors. Graduation requirements state that the student must pass Algebra I or Adv. Algebra I to graduate.

Prerequisite: Successful completion of Pre-Algebra or recommendation of 8th grade math teacher.

Algebra I is the first math course in high school for the average math student. This course covers many methods of solving equations. It also covers polynomials, factoring, square roots, the Pythagorean Theorem and quadratic equations. Algebra I also involves ratios, percent, and proportions.

***ADVANCED ALGEBRA I – 1301/1302**

- Two semesters
- This course is open to freshmen.

Prerequisite: Successful completion of 8th grade math and the recommendation of the 8th grade math teacher.

In Advanced Algebra I axioms are initially introduced and they lead to the topic of solving equations. The "how" to solving equations is stressed by transforming equations by a step-by-step process. Additional topics considered are factoring, polynomials, algebraic functions, inequalities, and solving problems with two variables.

***GEOMETRY – 1251/1252**

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.

Prerequisite: Students who enroll in Geometry should have successfully completed Advanced Algebra I or have completed Algebra I with a grade of C- or higher

Geometry covers the relationships between points, lines and planes. Additional topics are the properties of perpendicular and parallel, angle relationships, congruent and special polygons. The Pythagorean Theorem and the geometry of circles are also explored.

***CHALLENGE GEOMETRY – 121H/122H**

- Two semesters
- This course is open to freshmen in the challenge math program.

Prerequisite: Completion of Advanced Algebra I in 8th grade with a grade of B- or higher.

This course is intended for college-bound students who are looking at careers that require a strong math background. This course will cover the relationships between points, lines and planes, as well as the properties of perpendicular and parallel lines, angle relationships and special polygons. The course also covers the Pythagorean Theorem, geometry of circles and, if time permits, constructions.

***INTERMEDIATE ALGEBRA WITH APPLICATIONS – 0955/0956**

- Two semesters
- This course is open to juniors and seniors.
- **If this course is successfully completed with a grade of “C” or higher, students can receive four (4) math credits from NWTC.**

Prerequisite: Successful completion of Algebra I or Advanced Algebra I. It is strongly recommended that the student take a geometry course before enrolling in Intermediate Algebra with Applications.

Topics will include properties of real numbers, order of operations, algebraic solution for linear equations and inequalities, as well as operations of polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverse, logarithmic and exponential functions.

***ADVANCED ALGEBRA II – 0950/0951**

- Two semesters
- This course is open to sophomores and juniors.

Prerequisite: Successful completion of Geometry or Advanced Algebra I.

Advanced Algebra II covers most of the topics from Challenge Advanced Algebra II at a pace and depth appropriate for the average college-bound student. Less emphasis is placed on proof, higher order systems of equations and logarithms. The structure of our number system is stressed and problems are solved with rational, irrational and complex solutions.

***CHALLENGE ADVANCED ALGEBRA II – 960H/961H**

- Two semesters
- This course is open to sophomores in the challenge math program.

Prerequisite: Completion of Challenge Geometry with a grade of B- or higher.

This class covers all topics of algebra for the sequential math student to move to the next level in the challenge math program. Topics include solving open sentences, working with relations and functions, graphing, proofs, factoring, matrices, irrational and complex numbers, analytic geometry, and exponential and logarithmic functions.

***ALGEBRA III / TRIGONOMETRY – 1071/1072**

- Two semesters
- This course is open to juniors and seniors.

Prerequisite: Successful completion of Intermediate Algebra w/Apps or Advanced Algebra II.

This course is intended to give technical college bound seniors a broader math background. The course covers advanced algebra and trigonometry topics at a pace which makes it easier for the student to understand.

***TRIGONOMETRY WITH APPS – 1051/1052**

- Two semesters
- This course is open to juniors and seniors.
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) math credits from NWTC.**

Prerequisite: Successful completion of Intermediate Algebra w/Apps.

This course will cover the following topics: circular functions, graphing of trigonometry functions, identities, solving equations, trigonometric functions of angles, inverse functions, solutions of triangles, complex numbers, De Moivre’s Theorem, polar coordinates, and vectors. If time permits, working with logarithms and exponentials will also be covered.

Students may qualify for transcribed credit at NWTC. Transcribed credit agreements mean that an actual technical college course, using college textbooks and materials, is being taught at Oconto High School. You will earn high school credit and, if you meet the conditions of the agreement, will be awarded college credit at the same time. The college grade and credits will be recorded on both an OHS transcript and a technical college transcript.

***PRE-CALCULUS – 123H/124H**

- Two semesters
- This course is open to juniors and seniors in the challenge math program.

Prerequisite: Completion of Challenge Advanced Algebra II with a grade of B- or higher.

This course is designed for the college-bound student who needs a strong math background and includes all topics for the calculus-bound student. If you plan on majoring in math, engineering, or a math-science related field, this is the course which provides the background for your next level of math.

***AP (ADVANCED PLACEMENT) CALCULUS – 101H/102H**

- Two semesters
- This course is open to students who have completed Pre-Calculus or Trigonometry.

This course is intended to give students a calculus background in order to be competitive at the college level. Students who plan on majoring in mathematics, engineering, chemistry, physics, or other related fields should take advantage of this course. Students taking Calculus will realize that functions are the major tools for describing the real world in mathematical terms. The class opens with basic review of pre-calculus topics. Students are required to have a graphing calculator. Much work is done with functions algebraically and confirmed on a graphing utility. Some topics for the first semester are: limits, continuous functions, the Sandwich Theorem, numerical derivatives, derivatives of trigonometric functions, the Chain Rule, implicit differentiation, the Mean Value Theorem, Newton’s Method and applications for first and second derivatives. The second semester of Calculus continues with area problems involving integrating functions, applied problem solving, transcendental functions, and the techniques of integration. With the completion of this course, students have the option of taking the AP Calculus test for college and math credits.

***ELEMENTARY STATISTICS -` 0945/0946**

- Two semesters
- This course is open to juniors and seniors.

Prerequisite: Successful completion of Advanced Algebra II.

The primary aim for this course is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. It includes measures of central tendency, measures of variability, grouped data, the normal distributions, central limit theorem, hypothesis testing, estimation, T-distributions, and Chi-square test.

MISCELLANEOUS COURSES

HEALTH - 9550

- One semester
- This course is required for freshmen.
- This course is open to sophomores, juniors and seniors who still need this credit.

This course is intended to explore the physical, mental, and social needs of the student. The student will apply critical thinking techniques to social issues and will be encouraged to apply positive decisions to promote a healthy lifestyle.

MUSIC

Research indicates that with experience in musical performance, students can exceed national average SAT scores by 51 points in verbal and 39 points on math.

We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.

CONCERT BAND – 9001/9002

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.

Performances include fall marching, Veteran's Day Program, winter sports pep band, Winter Holiday Concert, WSMA Concert Festival, Spring Band-A-Rama Concert, Memorial Day parade and OHS Graduation. Additional individual or group lessons required. Optional activities include Solo and Ensemble festival and Jazz Ensemble.

CONCERT CHOIR – 9171/9172

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.

This class introduces and expands on basics to singing choral music including music theory and proper singing techniques. Required performances include: Fall, Holiday, and Spring Concerts, Veterans Day, and other community events throughout the year. Optional performances include District and State Solo and Ensemble, National Anthem for various sporting events, and Christmas caroling.

CHAMBER CHOIR – 9201/9202

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.
- Students must audition every year for this choir.

This class expands on music theory and proper singing techniques as the music is very challenging. Required performances include: Fall, Holiday, and Spring Concerts, Veterans Day, Graduation, Memorial Day, Baccalaureate, and other community events throughout the year. Optional performances include District and State Solo and Ensemble, National Anthem for various sporting events, and Christmas caroling.

VOCAL JAZZ – 8015/8016

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.
- Students must audition at the end of each school year.

In Vocal Jazz, students will learn a variety of vocal jazz styles from swing to ballad to contemporary pieces. They will have the opportunity to sing accapella glee style music as well as accompanied pieces at required performances throughout the school year. They will also perform at Solo and Ensemble contest in March, with the possibility of performing at the state level of competition. Vocal jazz music is very difficult with its challenging rhythms and harmonies. Therefore, this is an auditioned course and it is important that students interested in vocal jazz are also registered for choir. Auditions take place in May for the upcoming school year.

<h2 style="text-align: center;">PHYSICAL EDUCATION</h2>
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It is a proven fact that a well-conditioned body produces a more productive mind. A total person needs not only a strong academic background, but also the physical well-being to give optimum results.

****SPECIAL NOTE****

Freshmen are **not** required to take Physical Education during their first year of high school. Those wishing to do so may sign up for one semester of Phy Ed. Only 2.5 credits (a total of 5 classes) of Physical Education count for credit for graduation.

PHYSICAL EDUCATION –8576 –S1 / 8578 –S2

- One semester
- This course is open to freshmen, sophomores, juniors and seniors.

This course is intended to give students a background in lifelong activities, team sports and lifelong fitness training. Students will participate regularly in health-enhancing fitness activities and other physical activities that contribute to the maintenance of wellness. This course will include cardiovascular and weight training along with traditional physical education units encouraging students to live a healthy lifestyle.

ADVANCED FITNESS TRAINING/COMPETITIVE TEAM SPORTS - 8635

- One semester
- This course is open to freshmen, sophomores, juniors, and seniors.
- Experience in competitive team sports.
- Instructor approval.

This course is designed for the student who is interested in advanced fitness training as well as competitive team sports. This course will be teaching advanced fitness/weight training techniques along with teaching a variety of competitive team sports as a method of cardiovascular training. Students in this course will be required to develop an individual fitness/weight training program, which meets their own specific needs. A typical week will consist of three days being dedicated to fitness/weight training with the other two days devoted to a competitive team sport.

LIFEGUARD TRAINING (AQUATICS) - 8673

- One semester
- Open to students 16 yrs. or older.
- Will count for .50 credit in Phy Ed or elective.
- Instructor approval.

This course is designed for those students who already know how to swim and tread water. The goal of this course is to refine swim skills while building cardiovascular and muscular strength and endurance. Students will learn skills to protect swimmers in, on, and around water. Students will be eligible to be certified through the American Red Cross for Lifeguarding, First Aid, and CPR. Students will have to purchase their book for class. Some classes will be held at the Bond Community Center, and students will be responsible for their own transportation to and from OHS.

CORE/CARDIO/AEROBIC WORKOUTS - 8631

- One semester
- This course is open to juniors and seniors.

The “core” actually consists of many different muscles that stabilize the spine and pelvis and run the entire length of the torso. These muscles stabilize the spine, pelvis and shoulder and provide a solid foundation for movement in the extremities. Core conditioning exercise programs need to target all these muscle groups to be effective. The muscles of the core make it possible to stand upright and move on two feet. These muscles help control movements, transfer energy, shift body weight and move in any direction. A strong core distributes the stresses of weight-bearing and protects the back. Aerobic physical activity that increases the heart rate helps strengthen the heart and lungs, increases metabolism, tones muscles, reduces blood pressure and can help with weight loss. A typical week includes: two days of core training, two days aerobic workout, and one game day.

SCIENCE

Science allows us to explore and explain the world around us. In addition, science knowledge is the foundation for some of the fastest growing career areas in health and technology.

***AP (ADVANCED PLACEMENT) PHYSICS – 021H/022H**

- Two semesters
- This course is open to juniors and seniors.
- Honors/weighted credit.

Prerequisites: Completion of Geometry and Advanced Algebra II. Because of the close association between Physics and mathematics, it is also strongly recommended that students enrolling in AP Physics are also currently enrolled in Trigonometry, Pre-Calc, or Calculus.

This course is a math-intense course, focusing on problem solving skills, basic triangle math and trig functions. First semester covers topics such as motion, vectors, and forces. Second semester will include topics such as heat, electricity, waves, and nuclear physics. The labs and lab write-ups will encourage logical and analytical thinking skills necessary for students intending to pursue careers in science.

This course is also available for college credit through the UW-Marquette concurrent enrollment program. Upon successful completion, this course credit could transfer to thirteen UW system institutions, and possibly other colleges. Students may enroll for just high school credit or for high school and college credit.

A student who earns a grade of “B” or better in this course will receive **Advanced Standing** at NWTC. Advanced Standing courses may earn a student the opportunity to skip an introductory level course in their program and advance to the next level. **Advanced Standing** agreements are transferrable to all schools within the WI Technical College System.



***AP (ADVANCED PLACEMENT) CHEMISTRY – 071H/072H**

- Two semesters
- This course is open to juniors and seniors.
- Honors/weighted credit.

Prerequisite: Successful completion of College Chemistry.

* It is highly recommended that students take AP Chemistry the year following College Chemistry

This course will continue the first year of chemistry. A review of the first year of chemistry as well as the introduction of new areas of study will cover the year. Individual projects and laboratory work will be included. This course is designed to prepare students for the AP Chemistry test. Students do not need to take the AP test. It is not recommended that students have an entire year between College and AP Chemistry, and should take them during consecutive years.

This course is also available for college credit through the UW-Marquette concurrent enrollment program. Upon successful completion, this course credit could transfer to thirteen UW system institutions, and possibly other colleges. Students may enroll for just high school credit or for high school and college credit.

A student who earns a grade of “B” or better in this course will receive **Advanced Standing** at NWTC. Advanced Standing courses may earn a student the opportunity to skip an introductory level course in their program and advance to the next level. **Advanced Standing** agreements are transferrable to all schools within the WI Technical College System.

***AP (ADVANCED PLACEMENT) BIOLOGY - 328H/329H**

- 2 semesters
- Open to juniors & seniors
- Prerequisite: successful completion of both semesters of Biology or Human Biology
- Honors grading

This course is intended to give students more experience in their Biology background which will enable them to be competitive at the college level. The course will focus on enhancing their first year of Biology, by concentrating on the following four Big Ideas:

Big Idea 1: The process of evolution drives the diversity and unity of life. (Evolution, Cellular Processes)

Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis. (Energy & Communication)

Big Idea 3: Living systems store, retrieve, transmit, and respond to information essential to life processes. (Genetics & Information transfer)

Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties. (Interactions)

“The big ideas encompass the core scientific principles, theories and processes governing organisms and biological systems. For each big idea, enduring understandings incorporate the core concepts that students should retain from the learning experience.”

“A more student-directed, inquiry-based lab experience supports the AP Biology course. These labs provide opportunities for students to design plans for experiments, data collection, application of mathematical processes, and refinement of testable explanations and predictions.” (AP® Biology Curriculum Framework 2016)

***There are no required dissections in AP Biology.** Upon completion of the course the students are encouraged to take the AP Biology exam, to attempt to earn college credits.

***COLLEGE CHEMISTRY – 125H/126H**

- Two semesters
- This course is open to juniors and seniors; sophomores may enroll with written consent of instructor.
- Honors/weighted credit

Prerequisite: Advanced Algebra II (prior or concurrent).

A relatively challenging study of the topics in an introductory level Chemistry course. Properties of matter, the quantity of a mole, development of the model of the atom, the structure of atoms and its correlation to reactivity are just a few topics that will be covered. Students will also learn correct chemical nomenclature, and use this to write and balance chemical equations. The year will wrap up with a study of stoichiometry and its application to chemical reactions.

***BIOLOGY – 3271/3272**

- One year course
- Open to freshmen, sophomores, juniors and seniors
- Satisfies the Biology credit for graduation

Topics covered in Biology are: Biochemistry (water, proteins & amino acids, enzymes, lipids, DNA, RNA, Protein Synthesis, Cellular Respiration, Photosynthesis); the Cell, Cell Division, Genetics, Evolution, Bacteria & Viruses and Ecology.

Students will learn through using models, argument driven inquiry based experiments, reports & presentations. They will also complete a multitude of hands on activities and labs to reinforce the content.

Successful students are encouraged to enroll in AP Biology for their junior or senior year, for an in-depth experience in Biology.

***HUMAN BIOLOGY – 3301/3302**

- Two semesters
- This course is open to sophomores, juniors and seniors.
- Satisfies the Biology credit graduation requirement.

Students will learn basic anatomical vocabulary as it pertains to the human body, as well as the correct names and functions of numerous structures and organs in each body system. Many familiar diseases and disorders will also be discussed. There will be opportunities to incorporate lab activities often throughout the year

***FORENSIC SCIENCE – 3350/3347**

- Two semesters
- Open to juniors and seniors

Prerequisite: Successful completion of Biology and Chemistry OR Chemistry may be taken concurrently.

The purpose of the study of Forensic Science is to create informed citizens who are literate in scientific inquiry and processes; provide educated jurors to serve our communities; be reliable eyewitnesses and understand the role of science in society. This course is designed to give basic information on the topics of observations and processing crime scenes (writing search warrants, collecting trace evidence and forensic imaging); fingerprinting, bloodstains and blood spatter patterns; impressions, ballistics, trace evidence (hair, glass, soil, powders).

Second semester topics include, but are not limited to: narcotics identification, toxicology, arson and explosives, document examination, computer crimes, criminal psychology and behavioral analysis, and the legal aspect of forensic science. Each semester concludes with a weeklong project that involves processing and photographing a crime scene, analyzing trace evidence, running/analyzing tests, writing the final crime report, and debriefing with local police officers. Many students find this course helpful when considering whether to pursue the forensic sciences at the college level.

***ASTRONOMY - 3175**

- One semester
- This course is open to juniors and seniors.

Students will learn about the effects of microgravity and space travel. They will study the distinguishing features of the planets and other objects in the Solar System. A unit on the properties of light and how it is used to study stars culminates with an overview of constellations. Describing the lunar phase cycle and an introduction to various classical astronomers and their contributions will also be included

***ENVIRONMENTAL SCIENCE – 3321/3322**

- Two semesters (students may take either one semester or both)
- This course is open to juniors and seniors.

Sustainability is the overlying concept that is reinforced throughout the year in topics such as Forestry, Agbiotech, Soils, and Agriculture for semester one. Semester two covers Biodiversity and Conservation Biology, Ecology, and Freshwater Ecosystems.

There are many opportunities to explore the great outdoors with macro invertebrate samplings, water quality testing, soil testing and soil moisture management, outdoor journalism, and making maple syrup.

***INTEGRATED SCIENCE - 3357/3361**

- Two semesters
- This course is intended for all freshmen except those recommended for Biology.

Integrated Science is an introductory course designed to integrate the four basic areas of science. Chemistry and physical science will be the focus for first semester. Earth science and biology will be the focus second semester. Because each area of science builds upon the previous area, there will be overlap and review in each. Demonstrations and laboratory work will be incorporated.

SOCIAL STUDIES

Social studies courses provide the individual student with the knowledge and skills he or she needs to become a productive, enlightened citizen in a democratic society. One who contributes to the community, the society and to the human race. More specifically, career areas such as psychology, history, sociology and social work, civil service, economics, politics and law (to name a few) require a concentrated preparation in the social studies area. It is our feeling that the first business of the schools is to develop enlightened citizens who can continue our Republic and improve its institutions--for if we fail at this, we fail absolutely!

***CHALLENGE (HONORS) SOCIAL STUDIES**

Prerequisite: Students must be assessed and/or approved for challenge classes in Social Studies.

Challenge classes are offered for Social Studies 9, U.S. History, and World History. These classes are designed for students who have a special talent in social studies. Students in challenge courses utilize higher levels of analysis in their coverage of history. The text is more demanding and the assignments are more comprehensive than the regular course. The classes prepare the student for the Advanced Placement U.S. History course and the possibility of earning college credit during the senior year of high school. Talk to a Social Studies teacher or the Student Services counselor for specific information about challenge social studies classes.

***AP (ADVANCED PLACEMENT) AMERICAN HISTORY – 241H/242H**

- Grade Level: Senior, and must have a minimum of a “B” average in History.

This course is designed to provide students with analytic skills and factual knowledge necessary to deal critically with problems and materials in American history. The course prepares students for intermediate and advanced college courses by making demands equivalent to those of a full year introductory college course. Students will learn how to assess historical materials, their relevance to a given interpretative problem, their reliability, and their importance and to weigh the evidence and interpretations presented to historical scholarship. An advanced placement course will develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

***GOVERNMENT - 4332**

- One semester (second semester)
- This is a required junior course.

This course is designed to immerse the student in the legislative process. Emphasis is placed on the research and report of a variety of current issues and the debate of said issues in the legislative forum. The final objective is to give the student the fundamentals he/she needs to be a responsible, participating citizen in our government and in society in general.

***CHALLENGE WORLD HISTORY – 321H**

This course covers the time period and information covered in World History. See the “Challenge (Honors) Social Studies” section for more details on challenge level courses.

***WORLD HISTORY – 4331**

- One semester (first semester)
- This is a required junior course.

World History will study the growth of civilization from the earliest Middle Eastern civilizations through the Renaissance. This material will provide the background necessary for an understanding of early United States history in the Era of Colonization. Information studied is primarily a survey of western civilization.

***CHALLENGE U.S. HISTORY B& C – 310H/311H**

This course covers the time span from the Colonial Era to the present. See the “Challenge (Honors) Social Studies” section for more details on challenge level courses.

***U.S. HISTORY B & C – 4298/4299**

- Two semesters
- This is a required sophomore course.

B- This class provides the learner with the knowledge of major domestic and foreign policy issues that changed the nation’s direction, focusing on events from the Civil War conflict to the start of the 20th century.

C- This class provides the learner with the knowledge of major domestic and foreign policy issues that changed the nation’s direction, focusing on the events from the Progressive Era to the present.

***CHALLENGE U.S. HISTORY A - 312H**

- Second semester
- This course is open to freshmen.

Prerequisite: Recommendation by OMS Social Studies teacher.

See information regarding US History A and see the “Challenge (Honors) Social Studies” section for more details on challenge level courses.

***U.S. HISTORY A- 4297**

- One semester (second semester)
- This is a required freshmen course.

This course is designed to extend student’s knowledge of the events and issues that shaped our country’s history. It provides the learner with the knowledge of major domestic and foreign policy issues that changed the nation’s direction focusing on events from the Colonial Era to the Civil War conflict. The course will develop students’ abilities to work effectively in groups as leaders and members, and also attempt to develop interpersonal skills.

***CHALLENGE SOCIAL STUDIES 9 – 4155**

- First semester
- This course is open to freshmen.

Prerequisite: Recommendation by OMS Social Studies teacher.

In addition to accelerated units on world geography and economics, this course focuses on higher-order thinking and writing skills, including analysis and synthesis, summarizing, and thesis statements. Prospective students should be prepared to participate in class-wide sharing and critiquing of individual efforts and ideas.

***SOCIAL STUDIES 9 – 4375**

- First semester
- This course is a required freshmen course, for those not in Challenge Social Studies 9.

This course is designed to introduce and prepare students for the other courses in the social studies curriculum. Students will brush up on social studies skills such as graph and chart analysis, map reading, research preparation, and general social studies reading techniques. A major emphasis of the course will be placed on the various fields of social studies.

***WISCONSIN HISTORY - 4130**

- One semester
- This course is open to sophomores, juniors and seniors.

This course is designed to extend student knowledge of the events and issues that shaped our state’s history. It provides the learner with knowledge of major political, economic, and social issues that changed the state’s direction focusing on events from the time of glaciations to the current condition of our state. The course will develop student’s abilities to work effectively in groups as leaders and members, and also attempt to develop interpersonal skills.

***AMERICAN LAW – 4050**

- One semester (first semester)
- This course is open to juniors and seniors

This is a fundamental course designed to acquaint the student with some practical law education. The course is designed to fulfill a gap in legal education of the laws and our responsibilities under these laws. It offers students a chance to explore personal values, opinions and biases about law and justice in our society.

***SOCIOLOGY – 4075**

- One semester (second semester)
- This course is open to juniors and seniors

This introductory sociology course covers the definition and scope of sociology, society, culture, and socialization and the self, social control and social deviance, social-cultural change and social movements, groups, class as a social group, racial and ethnic groups, communities, institutions (family education, religion, government and the economy), populations, and collective behavior. The introductory sociology course explores the ways people interact with one another and relationships within groups.

TECHNOLOGY EDUCATION

We encourage all students to explore courses in all areas regardless of the stereotypical beliefs about traditional male and female roles.

The skilled workforce of the world comes from the quality of education obtained in Technology Education classes. Your experiences in the OHS Technology Education Department will help you prepare to become a valued, goal-oriented partner in tomorrow's workforce.

Technology Education classes cover a wide variety of topics. To make this section more user friendly the courses are organized into the following categories:

- Transportation & Power
- Manufacturing - Material & Process
- Communications
- General Awareness

****SPECIAL NOTE****

Students who sign up for Tech Ed courses with this symbol (~) preceding the course title will need to pay for all materials and supplies they use in their projects. In most cases the student will need to pay for the materials and supplies before they start the project. Students who fail to pay for their materials and supplies will fail the class.

TRANSPORTATION & POWER

ELECTRATHON –6451/6452

- Two semesters
- One period per day
- 0.5 credit per semester
- Open to juniors and seniors

Prerequisite: Instructor approval and completion of Geometry is highly recommended.

This advanced-level course is for the student who has the drive to design, promote, construct, and race an electric powered, single-person vehicle. The class uses a problem-solving discipline to design and build an efficient vehicle, all in a hands-on and team oriented approach. It culminates with three state-wide competitive events that will test the safety, reliability, and efficiency of their vehicle. There are no shop fees, personal protective equipment is mandatory, and students are required to promote and fund raise to support the design, construction, and competition of their vehicle.

~HOME AND CAR CARE - 6475

- One semester
- One period per day.
- This course is open to juniors and seniors.
- **This course is not open to advanced technology education students.**
- Safety glasses are required.
- **Students/Parents will be responsible for the cost of parts/service on personal vehicles.**

In this consumer-oriented class, students will learn basic maintenance and repair procedures for both of these major expenditures items. Upon completion of the class students will be able to perform minor maintenance and make informed decisions related to their homes and cars.

~SMALL ENGINES - 6125

- One semester
- This course is open to freshmen, sophomores, juniors and seniors.
- This course is recommended for those students who plan to take automotive courses as juniors and seniors.
- Safety glasses are required
- **Students/Parents will be responsible for the cost of parts/service on personal equipment.**

This course will provide the student with an exploratory study of small engine construction, operations, service techniques and repair procedures. The student will have the opportunity to tear down and assemble small engines.

~AUTOMOTIVE SERVICE FUNDAMENTALS – 6001/6002

- Two semesters
- Two periods per day for 1.0 OHS credit per semester.
- This course is open to juniors and seniors.
- Safety glasses are required.
- **Students/Parents will be responsible for the cost of parts/service on personal vehicles**

Prerequisites:

- Instructor approval.

This is a year-long introductory automotive course covering shop safety, tools and equipment, the fundamental principles of operation, common maintenance and service procedures, and basic automotive diagnostic procedures. Students will perform services and procedures on a variety of vehicles for a hands-on, practical learning experience. A driver's license and vehicle to work on is recommended, but not required. Students are responsible for providing and wearing their own safety glasses. Students will be responsible for the cost of all repair parts and supplies used on personal vehicles. There is a \$5 shop fee for most student projects.

MANUFACTURING - MATERIALS & PROCESS

~BUILDING TRADES I & II – 6201/6203

- Two semesters
- This course is open to sophomores, juniors and seniors.
- Safety glasses are required.

Students will have the opportunity to learn building trades skills through work on real world building projects. Past projects have been building garages, dugouts, concession stands, and partitioning off storage areas. This is a hands-on learning class.

Students must supply their own safety glasses, work clothes, and work shoes for this class. Safety glasses are sold at the school for approximately \$3.00. Students who fail to have or wear the above safety items will be dealt with under the Technology Education Safety Policy.

~ WOODS I- BASIC WOODWORKING – 6251/6252

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.
- **Students are responsible for purchasing materials for projects.**
- Safety glasses are required.

First Semester:

The course concentrates on wood and materials, the proper use of hand tools, and the safe operation and function of most power tools; and an introduction to the CNC router. Hands-on learning is emphasized through the construction of required projects.

Second Semester:

To be eligible for second semester, students must pass first semester, and all required safety exams given first semester must be successfully completed. Students will then work on the construction of larger projects, and an introduction to cabinetry.

~WOODS II- INTRODUCTION TO FURNITURE AND CABINETMAKING – 6224/6225

- Two semesters
- This course is open to sophomores, juniors and seniors.
- Safety glasses are required.
- Students are responsible for purchasing materials for projects.
- **Project cost will vary by wood and project choice.**

Prerequisite: Successful completion of Basic Woodworking I.

This course is designed to improve student skills in the operation of power equipment through preparing and constructing of several designated projects. These projects will include face frame construction, dovetail joinery, raised panel door and drawer construction, and construction planning. Students will also learn to program the CNC router with our MasterCAM software through various projects.

~ORNAMENTAL METALS – 6303

- One semester
- Open to freshmen, sophomores, juniors and seniors.
- Safety glasses are required.
- **Students are responsible for purchasing materials for projects.**

Students will learn to use many metal working machines through a project based approach. This is an introductory course, and no prior experience is necessary. They will be using the CNC plasma cutter, welders, benders, grinders, 3D printers, MIG welders, CNC mill, CNC lathe, and possibly the manual mills and lathes. Projects include sheet metal work, jewelry making, metal bending, welding, yard ornaments, and many others. Students will also be able to pick from the styles and projects taught to create something agreed upon by the instructor and the student.

~INTRO TO METALS – 6301/6302

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.
- Safety glasses are required.
- **Students are responsible for purchasing materials for projects.**

Students will get familiar with welding and machining. This is a year-long course that's meant to be exploratory, introducing students to all of the courses they will have a chance to take in their junior and senior years for college credit. MIG welding, Arc welding, and Tig welding will be introduced. Manual mill work and lathe work will also be introduced. Students will have time on CNC mills and lathes and the 3D printer. Many basic projects will be designed and created by each student. Time will be allotted for students to create projects of their own choosing at the end of each part of the course.

<p style="text-align: center;">CNC (COMPUTER NUMERIC CONTROLLED) INTRODUCTION Youth Apprenticeship Pathway: Manufacturing -Machining</p>
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~METALS FABRICATION – 6304/6305

- Two semesters
 - Safety glasses are required
 - This course is open to sophomores, juniors and seniors.
 - Students enrolled in this class can earn **CNC PROGRAMMING (7014/7015) CREDIT**
- Prerequisite: Successful completion of Introduction to Metals.

Students will advance the skills learned in Intro to Metals to work on larger projects for the community, school, or personal uses.

~CNC PROGRAMMING & MANUAL MACHINING. – 7014/7015

- Two semesters
 - **If this course is successfully completed with a grade of “C” or higher, students can receive two (2) credits from NWTC**
 - This course is open to juniors and seniors.
- Prerequisite: Successful completion of Introduction to Metals.

This portion of the class covers two NWTC classes (**31-420-336**) - **Intro to CNC Milling Operation, (31-420-339) & Intro to CNC Turning Operation, (10-420-100)**. Students will learn to operate and command CNC Mills and Lathes. They will also learn to interface them with Master CAM software. This is a project based class that will also include manual machining techniques.

~NWTC WELDING – 6271/6272

- Two semesters
- One period per day.
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC .**
- This course is open to juniors and seniors.
- Safety glasses are required.
- **Students are responsible for purchasing materials for projects.**

Prerequisite: Successful completion of Introduction to Metals.

Students can receive NWTC credits for this class **SHIELDED METAL ARC WELDING I - (31-442-342), GAS METAL ARC WELDING I (31-442-348), and GAS TUNGSTEN ARC WELDING 1 - (85959)**

This class focuses on the skills needed for (AWS) American Welding Society certifications using three different types of welding., SMAW (Stick), GMAW (Wire), GTAW 2226(Tig).

DRAFTING

INTRO TO CAD – 6321/6322

- Two semesters
- This course is open to freshmen, sophomores, juniors and seniors.

Students will learn the basics of creating isometric drawings using AutoCAD. They will learn the rules of industry related to the representation of parts through two dimensional drawings. Students will be introduced to extruding drawings and drawing them in 3D. Students will also use AutoCAD Inventor and print some projects on the 3D printer. This course is a prerequisite for NWTC Mechanical Auto CAD.

ARCHITECTURAL DRAFTING – 6351/6352

- Two semesters
- This course is open to sophomores, juniors and seniors.

Prerequisite: Successful completion of Intro to CAD.

Students will learn how to design and draw their dream house, within a budget, of course. AutoCAD will be used to draw all necessary details of the house.

~MECHANICAL AUTO CAD – 7002/7003

- Two semesters
- **If this course is successfully completed with a grade of “C” or higher, students can receive two (2) credits from NWTC course number 10-606-113**
- This course is open to juniors and seniors.

Prerequisite: Successful completion of Intro to CAD.

Students will learn computer aided drafting using AutoCAD software focusing on template settings, creating and manipulating layers, drawing, editing, and inquiry commands, blocks and attributes, and plotting.

The following courses will be offered in an “ODD” and “EVEN” year format as listed below.

ODD YEARS

Ex: 2019-20, etc.

**Machine Tooling I/Cutting Tool
Automation I & II**

EVEN YEARS

Ex: 2020-21, etc.

Intro to Robotics/College 101

Technical College credits may transfer to two and four-year colleges. Check with Student Services if you have questions.

**ELECTRO-MECHANICAL FUNDAMENTALS:
Youth Apprenticeship Pathway: Manufacturing: Maintenance Installation & Repair**

~AUTOMATION I - CONTROL LOGIC/AUTOMATION II –MOTOR CONTROL – 7005/7006

- One semester
- **If this course is successfully completed with a grade of “C” or higher, students can receive two (2) credits from NWTC —course numbers- (Auto I)-10-664-100, (Auto II) – 10-664-101**
- This course is open to juniors and seniors.
- **This course will be offered every other (odd) year. Ex: 2019-2020, etc.**

This course will cover the following areas: Electric motor control components such as switches, relays, starters, transformers; and safely mount and install motor and motor control components and perform related wiring and troubleshooting of motor control circuits. This course will also cover the following areas: Electric motor control components such as sensors, timers and counters.

~INTRODUCTION TO ROBOTICS/COLLEGE 101 - 7008

- One semester
- **If this course is successfully completed with a grade of “C” or higher, students can receive two (2) credits from NWTC — course number 10-620-170.**
- This course is open to juniors and seniors.
- **This course will be offered every other (even) year. Ex: 2020-2021, etc.**

This course will cover the following areas: Introductory study of the application, operation, programming and troubleshooting of industrial robots. College 101 includes strategies and tools that support success in college, such as study skills, college resources, time management, and self-assessment.

CNC (COMPUTER NUMERIC CONTROLLED) INTRODUCTION
Youth Apprenticeship Pathway: Manufacturing -Machining



~MACHINE TOOLING 1/CUTTING TOOL TECHNOLOGY – 7012/7013

- Two semesters
- **If this course is successfully completed with a grade of “C” or higher, students can receive three (3) credits from NWTC**
- This course is open to juniors and seniors
- Safety glasses required
- **This course will be offered every other (odd) year. Ex: 2019-2020, etc.**

In **MACHINE TOOLING (31-420-345)** students will make projects from the NWTC Machine Tooling projects blueprint book using machine tool theory/operations on the vertical mill, power saw, engine lathe, drilling machines, bench work and the surface grinder.

In **CUTTING TOOL (31-420-347)** students will learn the following applications: tool materials, tool geometry, lathe tools, milling cutters, cutting speeds/feeds, drills, reamers, taps, threading tools, carbide inserts, and diamond, ceramic, cermet and polycrystalline cutting tools.

STUDENT AIDE/ TECH ED – 7016-7017

- One or two semesters
- May earn a maximum of one total credit toward graduation
- Open to juniors and seniors
- **Must** have instructor approval

This engineering and technology-aide course offers students the opportunity to assist instructors in preparing, organizing or delivering course curricula. Students may provide tutorial or instructional assistance to other students.

<p><u>AMERICAN SIGN LANGUAGE 2 (NWTC) – 5907</u></p> 	<p>Open to students in Grades 11 & 12.</p>	<p>A college teaches this course. It will be taught at a college level and the primary audience is the college-age or adult learner. As such, the content of this class will be for adult students.</p>
<p>Prerequisite: American Sign Language I <u>A more in-depth study relating to deaf culture including non-manual grammatical markers, signing, fingerspelling, classifying, and the technology related to deafness.</u></p>		

FAMILY/ CONSUMER EDUCATION

<p><u>CHILD DEVELOPMENT I – 8227</u></p>	<p>Open to students in grades 10, 11 and 12.</p> <p>TRITON Semester Course (Chromebooks) * One-to-one devices are needed daily in class.</p>	<p>THIS IS A BLENDED COURSE – IT WILL MEET PART OF THE TIME VIA TRITON WITH THE REMAINDER OF THE CLASS WORK DONE ONLINE.</p>
<p>During this class students will study the decision to parent, the financial and emotional aspects of parenting, and various parenting styles. The development of a child beginning with fetal development and the birth process and continuing through age one will be explored extensively. Students will become familiar with the social, emotional, physical, and intellectual development of infants. This course is recommended for individuals who plan to pursue careers in child related fields such as teaching, day care, counseling, pediatrics and to any student who hopes to someday become a parent. * There is no guarantee that the Real Care Baby project will remain a part of the curriculum.</p>		

<p><u>CHILD DEVELOPMENT II – 8228</u></p>	<p>Open to students in grades 10, 11, and 12.</p> <p>Prerequisite: Child Development I is recommended but not required prior to taking this course.</p> <p>TRITON Semester course</p> <p>* One-to-one devices are needed daily in class. (Chromebooks)</p>	<p>THIS IS A BLENDED COURSE – IT WILL MEET PART OF THE TIME VIA TRITON WITH THE REMAINDER OF THE CLASS WORK DONE ONLINE.</p>
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Child Development II covers the physical, emotional, social, intellectual, and moral development of children ages 1-12 years old. During this class, students will be spending time learning age appropriate art, music, & nutrition activities to implement with early childhood age through 12-year old children. In addition, students will learn about common childhood illnesses and dealing with children with special needs. This course is recommended for individuals who plan to pursue careers in child related fields such as teaching, day care, counseling, pediatrics and to any student who hopes to someday become a parent. Students should be self-motivated and driven to meet assignment deadlines.

FOREIGN LANGUAGE

<p><u>GERMAN I – 7271-7272</u></p>	<p>Open to students in Grades 10-12.</p> <p>TRITON Year-long Course</p>
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German I is an elementary, basic course intended to provide the basics of German language use and grammar. The four-fold aim of this course is to enable you to understand proper written and oral language, to express yourself with it, to read the foreign language and employ the language in written form within the range of your ability.

<p><u>GERMAN II -7275/7277</u></p>	<p>Open to students in grades 10–12.</p> <p>TRITON Year-long Course</p>	<p>Pre-requisite: German I</p>
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This course broadens the knowledge of the student in the area of grammatical structures of the German language. There is an increased emphasis on the spoken, practical usage of the language, and on German culture.

HEALTH CAREERS

<p><u>MEDICAL TERMINOLOGY (NWTC) - 9221</u></p> 	<p>Open to students in grades 11 & 12.</p> <p><i>This is a 3 credit course</i></p>	<p>A college teaches this course. It will be taught at a college level and the primary audience is the college-age or adult learner. As such, the content of this class will be for adult students.</p>
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This course focuses on the component parts of medical terms: prefixes, suffixes, and root words. Students practice formation, analysis, and reconstruction of terms. There will be an emphasis on spelling, definition, and pronunciation. Topics include an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

<p><u>BASIC ANATOMY (NWTC) - 3030</u></p> 	<p>Open to students in Grades 11 & 12.</p> <p>This is a 3 credit course. Course number: 10-806-189</p>	<p>A college teaches this course. It will be taught at a college level and the primary audience is the college-age or adult learner. As such, the content of this class will be for adult students.</p>
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This course examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems. (Prerequisite: Recommendation: High School Chemistry or High School Biology with a “C” or better.)

SOCIAL STUDIES

<p><u>DIVERSITY - INTRO (NWTC) - 4077</u></p> 	<p>Open to students in grades 11 & 12.</p> <p><i>This is a 3 credit course.</i></p>	<p>A college teaches this course. It will be taught at a college level and the primary audience is the college-age or adult learner. As such, the content of this class will be for adult students.</p>
<p>This course includes information on the basic American values of justice and equality by teaching vocabulary, history of immigration/conquest, transcultural communication, legal liability, multicultural majority/minority relations, ageism, sexism, gender, sexual orientation, and the disabled/ADA.</p>		