



# PULASKI

## HIGH SCHOOL

# Course Description Book

2023 - 2024

## **TABLE OF CONTENTS**

### **GENERAL INFORMATION**

Message from the Principal.....	Page 2
District Philosophy.....	Page 3
Public Notification of Nondiscrimination Policy.....	Page 4
Staff Information.....	Page 5
Graduation Credit Requirements.....	Page 6
Attendance Requirements.....	Page 7
Student Employment/School Sponsored Work Experience.....	Page 8
Course Withdrawal Policy.....	Page 9
Preparing for College & University Admissions.....	Page 10
Military Academies/Enlistment.....	Page 12
Early College Credit Program & Start College Now.....	Page 13
Special Education.....	Page 15
Grade Indexing.....	Page 16
Advanced Placement, College Credit, Advanced Standing and Transcribed Courses.....	Page 19

### **COURSE DESCRIPTIONS**

Agricultural / Life Science & Natural Resources.....	Page 26
Art.....	Page 34
Business and Information Technology Education.....	Page 38
Computer Science.....	Page 43
English.....	Page 47
Family and Consumer Science.....	Page 53
Mathematics.....	Page 61
Music.....	Page 66
Physical Education & Health.....	Page 70
Science.....	Page 77
Social Studies.....	Page 79
Technology and Engineering Education.....	Page 84
World Languages.....	Page 94
Youth Apprenticeship.....	Page 98

Cover Design by.....	Alyssa Wittman
----------------------	----------------

Dear Students and Parents,

The Course Description Book can be extremely helpful as a plan for graduation. In a highly competitive environment, students will have an edge if they have a **good plan of action**. One of the first things students should do is develop a four-year plan to get them successfully through high school. While doing so, please be aware of graduation requirements for your class (see page 6 for details). Many options exist for students after high school, including entrance into two to four year colleges, the military, apprenticeships, or the workforce.

Whichever option is chosen, the decision should be made jointly by the parents and students in consultation with members of the PHS Staff. Your counselor, teachers and administrators are all good resources that can be valuable in helping you in the decision making process. Consideration should be given to personal goals along with a review of the student's past academic record. The final choice, however, will be left to the student and parents. In addition, we will work with you if you decide to change your plans or have any questions. Because of its obvious importance, the scheduling process should be taken seriously and course selections carefully contemplated.

The Course Description Book contains a brief summary of courses along with the recommended sequence for taking them. Most students who succeed do so because they have a good plan. This process is very much like a journey out of the state or country. The chances of getting to the destination and back on time and in good health depend on the amount of time and effort spent on planning the trip. So it is with the educational and career plan. **Please invest in planning time now in order to reap major opportunities later.**

Much can be learned and many opportunities to create wonderful memories are available during the four years of high school. It is a unique time that will not be repeated. **Make the most of it.** On behalf of the entire staff at PHS, we wish for you a productive and fulfilling high school experience.

Please let any of us know if we can be of assistance.

Jeremy Pach  
Principal

Steve Linssen  
Associate Principal

Brooke Lynch  
Associate Principal

Janel Batten  
Athletics

Ryan Mentink  
Activities

## **PULASKI COMMUNITY SCHOOL DISTRICT EDUCATIONAL PHILOSOPHY**

We believe that a community's and a nation's greatest resource is its people, especially the students of our schools. At the Pulaski Community Schools, the student is the nucleus of the school system and our education decisions are guided by what we consider to be best for every student. We maintain that the student should be given every reasonable opportunity to realize his/her best self.

We are now, and should continue to be, a school offering the student a second, third and fourth chance. This means that every available alternative will be explored to help the student grow academically and develop self-control. Each new opportunity in the area of discipline will be designed to encourage the students to accept responsibility for their actions. New alternatives in the area of academics will be explored, when necessary, to satisfy the students' needs and interests.

It is our belief that our curriculum should serve the needs, interests and abilities of the student population and promote the mental and physical health of the student. It should instill pride in heritage and a sense of responsibility, and provide the proper information, emphasis and perspective for learning to live a successful life in our local community as well as the nation and the world.

Our educational system should help each student increase his knowledge, build greater understanding, and develop social attitudes and acceptable behavior to prepare him/her to be a contributing member of society. We feel that our curriculum must have a wide enough scope to prepare the college bound student, the vocationally oriented student, as well as the student who will seek a job upon graduation.

Our belief is that the Pulaski Community Schools should focus not only on its children, but it should also provide the adult members of the school district the facilities and services to continue their education. A school and community that work closely together can use the students, faculty and administrators to evaluate the assets, needs and possibilities of the community and help provide direction for its growth. The community becomes a true learning laboratory.

We believe that the schools are the thread that binds the people of the community together. The name, Pulaski Community Schools, reflects the close ties between the schools and the people of its district. An active participation by the schools in the community and the community in the schools can help make education real and meaningful for all involved.

## **PUBLIC NOTIFICATION OF NONDISCRIMINATION POLICY**

(Class 1 Legal Notice to be published in area newspapers at least once annually.)

It is the policy of the Pulaski Community School District that no person may be denied the benefits of, or be discriminated against in any curricular, extra-curricular, pupil service, recreational, or other program or activity based on traits of sex (including transgender status, change of sex, or gender identity), race, color, national origin, religion, creed, ancestry, marital or parental status, sexual orientation or physical, mental, emotional or learning disability, or any other characteristic protected by Federal or state civil rights laws. . This policy does not intend to prohibit the provision of special programs or services based on objective standards of individual need or performance to meet the needs of pupils, including gifted/talented, special education, school-age parents, bilingual, bicultural, at risk, and other special programs or programs designed to overcome the effects of past discrimination. This policy also prohibits discrimination as defined by Title IX of the Education Amendments of 1972(sex), Age Discrimination Act of 1975, Title IV of the Civil Rights Act of 1964 (race and national origin), and Section 504 (handicap) of the Rehabilitation Act of 1973.

All District career and technical education opportunities will be offered to students on a nondiscriminatory basis. Information regarding such program offerings and admission criteria is included in the school course description book which is posted on the District website, [www.pulaskischools.org](http://www.pulaskischools.org) and available upon request from the school counselor office.

Children of homeless individuals and unaccompanied homeless youth (youth not in the physical custody of a parent/guardian) residing in the District shall have equal access to the same free, appropriate public education, including comparable services, as provided to other children and youth who reside in the District. Homeless children and youth shall not be required to attend separate schools or programs for homeless children and shall not be stigmatized by school personnel.

The District shall provide appropriate educational services or programs for students who have been identified as having a handicap or disability, regardless of the nature or severity of the handicap or disability. The District shall also provide for the reasonable accommodation of a student's sincerely held religious beliefs with regard to examinations and other academic requirements. Requests for religious accommodations shall be made in writing and approved by the building principal.

The District encourages informal resolution of student discrimination complaints. A formal complaint resolution procedure is available. To address allegations of violations of this policy in the Pulaski Community School District or ask any questions concerning Section 118.13 Wisconsin Statutes, or Title IX of the Educational Amendments of 1972 which prohibits discrimination on the basis of sex, complaints or concerns should be directed to:

Director of Student Services  
Julie Harris  
Pulaski Community School District  
P. O. Box 36  
Pulaski, WI 54162  
(920) 822-6028  
[jaharris@pulaskischools.org](mailto:jaharris@pulaskischools.org)

## **WHO SHOULD I CALL WITH QUESTIONS?**

### **Student Services**

Freshman Counselor.....	Sara Tulppo.....	822-6729
Counselor-“A-Ha” .....	Leah Grant .....	822-6728
Counselor-“He-O” .....	Shelby Kaisershot.....	822-6714
Counselor-“P-Z” .....	Jeff Waggoner.....	822-6730
District School Counselor.....	Paula VanDerLinden.....	899-0432
Advanced Placement Coordinator.....	Dan Anderson.....	822-6891
School Nurse.....	Bernadette Dervish.....	822-6027
Educational Diagnostician.....	Nicole Hess.....	822-6024
High School Main Line.....		822-6700

### **Administrative Services**

Superintendent .....	Allison Space.....	822-6001
Principal.....	Jeremy Pach.....	822-6712
Associate Principal.....	Steve Linssen.....	822-6538
Associate Principal.....	Brooke Lynch.....	822-6736
Athletic Director.....	Janel Batten.....	822-6706
Activities Director.....	Ryan Mentink.....	822-6755
Director of Business Services.....	Mark Logan.....	822-6010
Director of Human Resources.....	Alyson Tress.....	822-6004
Executive Director of Teaching & Learning.....	Jenny Gracyalny.....	822-6018
Assistant Director of Learning Services.....	Lindsey Mathys.....	822-6031
Director of Student Services.....	Julie Harris.....	822-6028
Assistant Director of Student Services.....	Lara Kuchenbecker.....	822-6026
Director of Information Technology.....	Tina Caelwarts.....	822-6070
Director of Instructional Technology.....	Amy Uelmen.....	822-6078

## **GRADUATION REQUIREMENTS**

### **Minimum Credit Requirement Implementation** - 24 credits

<u>Credits</u>	<u>Curriculum Area</u>	
<b>4</b>	<b>English</b>	
	a. English 9 or Advanced English 9	1.0 credit
	b. English 10 or Advanced English 10	1.0 credit
	c. English 11 or Advanced English 11	1.0 credit
	d. English Elective	1.0 credit
<b>3</b>	<b>Mathematics</b>	3.0 credits
<b>3</b>	<b>Social Studies</b>	
	a. Civics (Social Studies I)	1.0 credit
	b. World History (Social Studies II) or AP European History	1.0 credit
	c. U.S. History (Social Studies III) or AP U.S. History	1.0 credit
<b>3</b>	<b>Science (Classes of 2023, 24, 25, 26)</b>	
	a. Biology or Applications in Biology	1.0 credit
	b. Earth Science	0.5 credit
	c. Elective Science Course	1.5 credits
	(1.0 of which may be approved CTE course labeled ES: Science Equivalent)	
<b>3</b>	<b>Science (Classes of 2027 and beyond)</b>	
	a. Biology or Applications in Biology	1.0 credit
	b. Choice of two: Introduction to Chemistry/Introduction to Physics and/or Earth Science	1.0 credit
	OR	
	Chemistry 1.0 credit	
	OR	
	Physics 1.0 credit	
	c. Elective Science Course	1.0 credit
	(1.0 of which may be approved CTE course labeled ES: Science Equivalent)	
<b>1.5</b>	<b>Physical Education</b>	1.5 credits
	Freshman Physical Education Required	
<b>0.5</b>	<b>Personal Financial Management</b>	0.5 credit
<b>(0.5)</b>	<b>Health</b>	(0.5 credit)
	Applies only to students who have not successfully completed this course or its equivalent in grades 7 or 8, in accordance with Board of Education Policy IKFA.	
<b>9.0 (8.5)</b>	<b>Electives</b>	
<b>24</b>	<b>Totals</b>	

All credits earned through the Pulaski High School curriculum will apply toward graduation. Credits also may be earned from alternate sources or during alternate times and be applied toward graduation with the **PRIOR** approval of the Pulaski High School Principal.



## **Middle School Courses for High School Credit**

### ***Effective beginning with the Class of 2025***

Pre-High School/Middle school students who are accelerated for a content area or grade level and who are enrolled in an approved accelerated high school course (Math 1, Math 2, Spanish 1, French 1), regardless of the location will have the grade recorded on the student's high school transcript. However, ***the grade received for the course will not be factored into the high school grade point average.*** See *Wisconsin DPI Credits Taken in Middle School for High School Graduation*. Students may utilize an approved high school course completed as a middle school student for meeting prerequisites for other high school courses and the course will be used to meet Pulaski Community School District graduation requirements as specified in Board of Education Policy IKF.

### **Classes of 2023-2024**

A [form](#) needs to be filled out and submitted to student services to bring the aforementioned classes/grades onto their high school transcript by the first day of their senior year. ***The grade and GPA points will be factored into a student's cumulative grade point average. \*Note the class of 2024 will have a P grade listed on their transcript due to P/F grading during Covid.***

## **Minimum Attendance Requirements**

- I. Eight semesters, grades 9 through 12, regardless of credit status. Attendance must be on a full-time basis through the eighth semester.
- II. Exceptions to attendance requirements must be approved by the Board of Education upon the recommendation of the high school principal or designee. The procedure for requesting early graduation follows:
  - A. The student and parents/guardians schedule a meeting with the high school principal or designee. The request is discussed at the building SAT meeting.
  - B. A request must be made in writing in the form of a parent/guardian letter, counselor letter, and student letter, all of which are turned into the principal or designee. The counselor must also complete a transcript with a plan to show completion of graduation requirements.
  - C. The Board, upon receiving all documents as stated in #2 above, will issue the final decision.

## **Exceptions to Curriculum and Attendance Requirements**

Exceptions may be provided to a student who is part of an alternative educational program or is identified as a student with an Exceptional Education Need (EEN). Students who enter or re-enter high school from home-based instruction may graduate after completing the requirements of Board of Education Policy JEGA.

## **Exception to Recommended Course Sequence**

There exists a possibility that students may register for a course that does not follow the recommended course sequencing. Courses that fall within this category are labeled throughout the course descriptions book with a "#" sign. If interested in enrolling in a course of this type, please contact your PHS school counselor at 822-6725. Your counselor will work with you, your family and the department of the desired course(s) that you wish to enroll in. Enrollment will be determined on a case-by-case basis.



## **Foreign Exchange Students**

Foreign exchange students are not eligible to receive a high school diploma, unless the student has graduated from the home school and met all graduation and attendance requirements for seniors attending Pulaski High School.

## **Miscellaneous Information Affecting Student Curriculum**

### **I. Terms**

- A. **Elective Course**: A course that a student can choose to take depending upon his/her future goals and interests.
- B. **Prerequisite**: Prerequisite, as used in this manual, means “requirements that must be met before a student may take a particular subject.”
- C. **Required Course**: A course which must be taken and passed to satisfy graduation requirements.

### **II. PBL**

Project Based Learning (PBL) is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge. Students enrolled in PBL at Pulaski High School are meeting academic standards aligned with college preparatory coursework. Entrance into Pulaski High School’s PBL program is on a Student Services and Administrative referral only.

### **III. Student Employment**

The school believes that a student’s primary responsibility is to attend school. Time requirements for any job should not interfere with a student carrying a normal class load during the school day. In general, state law allows students 14-15 years old to work a maximum of 18 hours during a 5 day school week. Students 16 years or older have no limit to the hours they may work except they may not work during hours of required school attendance, *based on 2011 regulations*.

### **IV. School Sponsored Work Experience Programs**

Students interested in participating in school sponsored credit bearing work experience programs can do so in two ways:

- A. Career & Technical Cooperative Education Programs for credit (see Course Descriptions).
- B. Youth Apprenticeship Program.

### **V. Youth Apprenticeship (See Youth Apprenticeship Section)**

The Northeastern Wisconsin Youth Apprenticeship (NEWYA) consortium offers opportunities for PHS juniors and seniors to explore and/or prepare for a career while still in high school. One or two year programs combine academic education, occupational related coursework, and work-based learning with an employer.

As a sophomore or junior in good standing, a student completes an application. The Youth Apprenticeship Coordinator will contact the student for an interview and determine if they are admitted to the program. The Youth Apprenticeship Coordinator will assist the student in job placement and help connect them with potential employment opportunities. Students will have to interview with potential employers. Upon acceptance as a Youth Apprentice, the student attends his/her home high school part-time, enrolls in career-related classes, and works at a local business site during junior and/or senior year.

Apprenticeships are competitive. Placement in the Youth Apprenticeship program is not guaranteed. It is the goal of Youth Apprenticeship to help prepare workers for the future.

## VI. Course Withdrawal Policy

Students and parents should plan carefully when the course selection form is completed each year. Schedule changes will be limited to the conditions below and must follow the procedure outlined on the course drop form.

- A. Students may add a class to their schedule within the first 5 school days of the start of the semester in which that class begins. Students may not add classes after this point.
- B. Should a student request to drop a class, the following will go into effect:
  - 1. First 10 school days- Students may drop a course with no recorded grade and the course will be deleted from the student's record.
  - 2. 11 - 20 school days into the semester- Students may drop a course by completing the [STUDENT/PARENT INITIATED COURSE DROP FORM](#) with the following recourse:
    - The teacher will be required to determine the grade that the student has earned as of the date of the schedule change. The teacher will assign a Withdrawal Pass (WP) or Withdrawal Fail (WF). Withdrawal grades will be placed on the student's permanent transcript.
  - 3. After 20 school days- Withdrawal from the class is not permitted.

## VII. Failures

Students are responsible for the rescheduling of **required** subjects because of failures. Students who fail courses should set up an appointment with their counselor at the earliest opportunity to revise their schedule for the next semester or school year to the failed **required** course. Required courses that have failed should be rescheduled as soon as possible. For example, courses that were failed during ninth grade should be rescheduled to be taken in grade ten. If one semester of a year-long required course is failed, students should retake that semester. Since students have already earned credit for the semester that they passed, they may choose to audit that semester for no additional credit. Elective courses that have failed may be retaken if desired. They are not required to be taken a second time. When a failed course is retaken, the course is listed on the transcript for each time the course was taken with the appropriate grade for each semester.

Students may be eligible to recover credit for certain required courses during the summer (rather than retake the whole course). Eligibility for credit recovery during the summer depends on the final course percentage (minimum 50%). Students are required to provide their own transportation to and from credit recovery during the summer. Students who are able to recover credit for a course will receive a P (Pass) for the failed semester.

## VIII. Scheduling

Registering for the correct courses is the responsibility of the students. Counselors conduct group presentations in classroom settings during registration time describing graduation requirements, course prerequisites, and post-secondary school opportunities. Students who have further questions are encouraged to set up an appointment with their counselor for individual guidance about their schedule. All students complete course selection forms and parents are expected to review and sign the forms.

### **PREPARING FOR COLLEGE & UNIVERSITY ADMISSIONS**

Students planning to attend college must pay very careful attention to admissions requirements prior to selecting their high school courses. The 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 with their school counselors.*

#### **High School Credit Requirements**

High school course work should prepare students for college by helping develop strong skills in at least four areas - English, mathematics, social science and natural science. *Two years of a world language are also strongly recommended for university admission.*

All UW System institutions require a minimum of 17 core academic high school credits (one credit is equal to one year of study) distributed as follows:

Core Prep Courses	Description	Credits
English	Accepted English courses stress an understanding of composition, literature and rhetoric. Significant practice in reading, writing and speaking is expected in composition and rhetoric. Several campuses require that at least three of the four credits in English include composition and literature. Most regular and advanced English courses are accepted. Courses not accepted tend to be those that emphasize applied skills, performance or technical production.	4
Mathematics	Algebra, geometry and other mathematics courses requiring algebra or geometry as prerequisites are accepted. Most campuses require both algebra and geometry. In most cases, courses are not accepted in mathematics if they are taught prior to first-year algebra, do not have algebra or geometry as prerequisites or are computer classes. Courses in applied math and statistics are not accepted at some institutions.	3
Social Science	Courses accepted in social science include history, political science, geography and theoretical studies of culture, economics and human behavior and societies (such as psychology and sociology). Courses in applied social science are not accepted.	3
Natural Science	Courses accepted in natural science include biology, chemistry and physics. These courses emphasize theory and usually have a significant laboratory component. Other science courses often accepted include astronomy, earth science, geology and physical science. Courses in applied science are not accepted at some institutions.	3
Elective Credits	Elective credits are chosen from the core college preparatory areas above, foreign language, fine arts, computer science and other academic areas. Some colleges may require two credits of a single world language. Some campuses may accept career and technical education courses for a portion of these four elective credits.	4

It is impossible to list courses required by all institutions. Students and parents should work closely with high school counselors for admissions information for Wisconsin colleges and all out-of-state institutions.

The UW System Board of Regents approved a new Freshman Admissions Policy for students entering UWS campuses beginning fall 2008. The new policy provides for a comprehensive, individualized review of freshman applicants. The new policy provides criteria to be used in making admission decisions.

Academic factors (rigor and quality of high school curriculum, grade point average, letters of recommendations, extra curricular activities, volunteer activities, and test scores) will continue to be the most important consideration.

PHS does not rank. In addition, other factors that will be considered include, but are not limited to, student experiences, leadership qualities, motivation, community service, special talents, work experience, status as a non-traditional or returning adult, status as a veteran of the U.S. military, whether the applicant is socio-economically disadvantaged, and whether the applicant is a member of a historically under-represented racial or ethnic group.

A strong academic background in high school beyond the minimal college admissions requirements can be beneficial. In general, all 4 year colleges strongly recommend more than the minimal admission requirements. For the admissions requirements of a specific college see your counselor or contact the institution.



## **MILITARY ACADEMIES**

Students seeking nomination to a military academy should be aware of entrance requirements and application deadlines.

## **MILITARY ENLISTMENT**

A high school diploma is required for enlistment in all branches of the military. The Armed Services Vocational Aptitude Battery (ASVAB) test is also required.

Students not interested in a military career may still wish to take the ASVAB test to gain career information.

## **NCAA CLEARINGHOUSE – ATHLETIC DIVISIONS I & II**

Athletes intending to compete in Division I and Division II colleges must complete the online NCAA Clearinghouse requirements. Information about the NCAA Clearinghouse is available in the Counseling Office.

## **PHS STUDENT SERVICES**

For information on post-secondary options such as 2 or 4 year colleges, the military, apprenticeships or employment, or for information on paying for college and/or scholarships, please go to the PHS Student Services webpage via the high school web page.

Follow us on Twitter @ PHS\_StudentServ

Like us on Facebook – Pulaski High School Counselor Connection

## **PULASKI HIGH SCHOOL EARLY COLLEGE CREDIT PROGRAM & START COLLEGE NOW**

**The Early College Credit Program (ECCP)** allows public high school students who meet certain requirements to enroll in a UW System institution, or a private, nonprofit institution of higher education, to take one or more nonsectarian courses, for which the pupil may earn high school credit, post-secondary credit, or both.

The program opens the door to greater learning opportunities for students who wish to begin college early or want to prepare to enter the workforce immediately after high school graduation.

Under the ECCP, the cost of courses taken is shared among the institutions of higher education (IHE), Pulaski High School, the state, and in some cases, the student's family. If the student is only receiving post-secondary credit for a course, the student's family is responsible for paying 25 percent of the allowable tuition charged unless that payment would pose an undue financial burden on the family as determined by DPI. If the student is earning high school credit as a result of enrolling in the course, the student is not responsible for tuition payment.

**Start College Now (SCN)** will allow students the opportunity to take college courses at the Wisconsin Technical Colleges

### **Eligibility For Participation in the Early College Credit Program (ECCP)**

To be eligible to participate in the Early College Credit Program, a student must:

1. Meet with their school counselor to discuss what courses they want to enroll in.
2. In order to attend an IHE, meet the IHE admission requirements.
3. Apply to the college in the school semester prior to the one in which s/he plans to attend the postsecondary course.
4. Notify their school counselor when admitted to the college.
5. Notify their school counselor when registered to attend a postsecondary course.

**\*Additional requirements/steps may need completion as updates to the ECCP occur per state law and district policy.**

### **Eligibility For Participation in the Start College Now (SCN)**

To be eligible to participate in the Start College Now Program:

1. The student has completed 10th grade
2. The student is in good academic and behavioral standing
3. The student completes and submits the appropriate paperwork to apply for SCN to their counselor by March 1 for fall courses and October 1 for spring courses.

### **High School Credit for ECCP & SCN**

The high school principal or designee shall determine whether a post-secondary course is eligible for high school credit and how much high school credit may be awarded. Generally, a 1-2 credit post-secondary course will be awarded .5 PHS credit and a 3-5 credit post-secondary course will be awarded 1.0 PHS credit. All decisions based on HS credit earned are based on counselor recommendation & confirmation by PHS Principal.

**\*Credit and eligibility will be based upon state law and district policy. Please meet with your counselor for further details.**

### **Payment Of Tuition & Fees for ECCP & SCN**

The school board must pay an IHE for any course that is taken for high school credit, as determined per state law and district policy.

The payment to a private IHE will be as determined by state statute.

The student must pay for a postsecondary course taken at an IHE for postsecondary credit only.

The school district will pay for up to a total of 18 postsecondary credits per student over the eligibility period through the Early College Credit Program. Please note there are laws being developed to govern the 18 credit totals between both ECCP and Start College Now. Please see your counselor for details.

**\*Additional limitations and requirements may apply with updates and changes to state law and district policy. Please work with your counselor if you are interested in participating in the ECCP or SCN.**

**\*If a student receives a failing grade or fails to complete (drops) a course for which the school district has made payment through the Early College Credit Program or Start College Now, the school board will require reimbursement for all costs related to the course. Reimbursement will be required from the student if s/he is an adult or from the student's parent or guardian.**

### **Transportation for ECCP & SCN**

Parents or students are responsible for the transportation between the school and the college.

Effective with the 2018-2019 school year, a student's family may be reimbursed for costs of transportation related to the student's participation in part-time open enrollment and the ECCP, subject to eligibility criteria. Please see your counselor for further details.



## **PART-TIME OPEN ENROLLMENT**

Under part-time open enrollment, a pupil enrolled in any high school grade in a public school may attend a public school in a nonresident school district for the purposes of taking up to two courses at a time.

**\*\*For further information on grade indexing please reference page 16.\*\***

## **SPECIAL EDUCATION SERVICES**

Special Education and related services for children with disabilities are an extension of the regular education program offered by the Pulaski Community School District. An appropriate education for children with disabilities is defined as special education and related services which are in accordance with the laws of the State of Wisconsin and the federal government, which meet state Department of Public Instruction standards, and are commensurate with the student's identified needs, as indicated by the student's individual education plan (IEP). In accordance with the legal concept of least restrictive environment include team teaching in the regular education classes (inclusion), resource room support, self-contained classes, work experience, community based instruction, speech/language therapy, adaptive physical education, physical therapy, occupational therapy, assistive (inclusion) appropriate educational opportunities shall be available to children with disabilities that technology and other related services necessary to meet the unique needs of each student. At Pulaski High School the children with disabilities teachers shall be an available resource to the regular teaching staff, the administration, and other professional personnel to help identify and clarify the individual needs of the children with disabilities, suggest modifications within the scope of the regular classroom program, provide management/monitoring of the children with disabilities progress, and provide instruction as a supplement to the regular classroom or as an alternative to the regular classroom requirements.

## **Grade Indexing at Pulaski High School**

### **The Purpose:**

Because we are continually striving for excellence as a school, we want to encourage students to take courses that challenge them academically. To accomplish this we are going to add a fixed amount to the cumulative grade point average of students who take certain challenging courses.

### **The Process**

- The indexing of a student's grade point average (GPA) involves adding .025 to the student's cumulative GPA for each semester a student is enrolled in an identified class.
  - For example:
    - A student enrolled in AP Chemistry for both semesters would have .05 (.025 for each semester) added to their cumulative GPA.
- The following courses will be indexed:
  - All Advanced Placement (AP) Courses:
    - AP European History, AP US History, AP Psychology, AP United States Government & Politics, AP Human Geography, AP Statistics, AP Calculus AB, AP Calculus BC, AP Physics 1, AP Physics 2, AP Biology, AP Chemistry, AP Environmental Science, AP French V and AP Music Theory
  - All College Credit Courses:
    - St. Norbert College Credit English
    - St. Norbert College Credit Calculus 1
    - St. Norbert College Credit Calculus 2
    - St. Norbert College Credit Statistics
    - UWGB College Credit Spanish V
  - Selected Project Lead The Way (PLTW) Courses:
    - Introduction to Engineering Design, Principles of Engineering, Computer Science Principles, and Civil Engineering & Architecture
  - Selected Transcribed Courses:
    - General Anatomy & Physiology
  - Certain Early College Credit Program (ECCP) courses may be indexed if approved in advance through the external course work request process. **No part-time open enrollment provision student may course index.**
    - Guiding principles for external indexed credit:
      - No articulated credit will receive indexed grading outside of selected transcribed courses noted above.
      - The indexed course must generate a transcript at an institution of higher learning which can be transferred to a 4-year university. (UW-System schools only) or would need to receive credits through the AP process (or a comparable process) that are transferable to a UW-System.

- A summative assessment from a higher education institution is important. The assessment must come from the school or a nationally recognized organization in line with credits granted at that higher ed institution.
  - Courses enrolled in and completed from other institutions outside of the traditional schedule should follow the external course approval form and be approved by both the department head and principal. This approval may allow for indexing of the external coursework.
- ***In order to earn index points, the student must complete the course and any tests associated with the course including advanced placement tests.***
- Independent study courses may be available for courses that are not offered during a particular term at PHS.
  - If schedule conflicts arise, conflicts will be resolved in the same manner that other scheduling conflicts are resolved between students and teachers. Students must enroll in the course and be able to participate in the course for a minimum number of MODS per week as identified by the teacher. All students will be held to the same expectations as outlined in the course syllabus and communicated by the instructor. This arrangement is in lieu of an independent study course, but students with conflicting schedules would assume more of the coursework, outlined in the syllabus, in an independent manner.
  - **Guidelines for Grade Indexing of Alternative Format Courses (independent study, etc.)**
    - Indexed grading applies to alternative format courses meeting the following descriptions and criteria.
      - The student must have originally enrolled in the proposed course during initial course selection.
      - Students can enroll in up to 1 credit of Independent Study / Alternative Format course per school year within the 8 credits students may take per school year for indexed grade points.
      - To earn index grade points, students will score at least a 3 on the AP exam for AP courses or will pass the final assessment required by the institution of higher education such that credit would be granted at that institution for College Credit classes.
  - **Independent Study Request / Approval form changes**
    - Pulaski High School cannot guarantee that an Independent Study course will be an option in all situations. All of the following items are contingent upon the instructor agreeing to enter into an Independent Study agreement with the student. There is no requirement that teachers do so. Please keep in mind that Independent Study courses are in addition to a full teaching load and duty schedule and will be evaluated on an individual basis.
    - In the event that a student cannot access the requested index grade courses, due to the course not being offered, alternative course options may be considered including independent study or online formats.
      - Independent Study courses can be taken with indexed grade points or without.
      - The course must be listed as a PHS course approved for indexed grade points in the current course description book and require the same assessment protocols as the other courses approved for PHS indexed grading.

- To be eligible for grade index points, the Independent Study must use the same syllabus / course outline / curriculum as is used in the PHS Course with modifications made only to items unable to be completed independently while maintaining fidelity to the course through

AP Audit or requirements of the Institution of Higher Education (IHE) granting credit for the course.

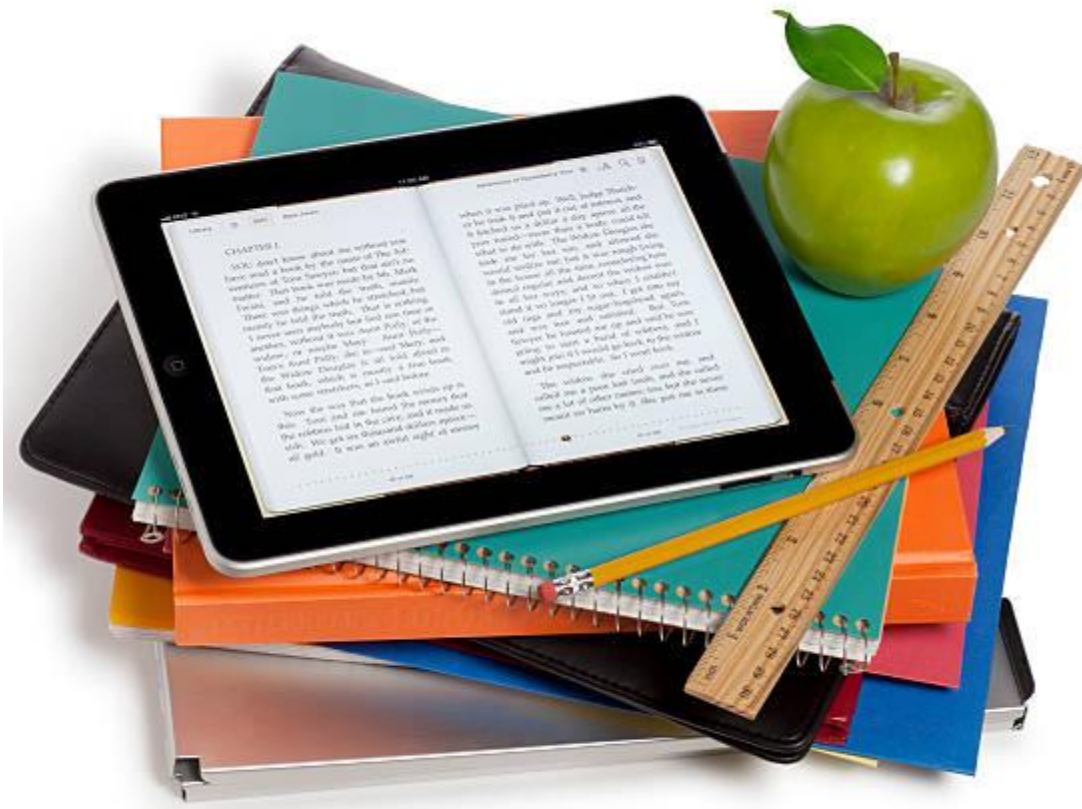
- The PHS instructor of the independent study course has previously taught or been trained to teach the independent study course proposed for indexed grade points and maintains current certification from the credit granting IHE or is currently approved and listed in the College Board's AP Course Ledger.
- Independent Study courses must be graded with letter grades in order to be eligible for grade index points.
- Implement independent study request / approval effective for the class of 2020.

#### **Notes:**

- The students who take the most indexed courses can rise in indexed ranking above those who take a less challenging slate of courses.
- Please understand that most colleges decompose weighted GPAs during the admissions process utilizing their own individual gauges for a student's true rigor and breadth of courses that were taken at the high school level in order to then match the college admission protocol for that individual college.
- Only grades earned during a student's high school career will be used in indexing.
- A non-indexed/indexed grade point average and class rank will be available upon request after meeting with a counselor or the student services secretary.

# ADVANCED PLACEMENT, COLLEGE CREDIT, ADVANCED STANDING, & TRANSCRIBED COURSES

LOOK INSIDE FOR COURSES FOR WHICH EDUCATIONAL CREDIT BEYOND HIGH SCHOOL MAY BE EARNED



## **ADVANCED PLACEMENT & DUAL ENROLLMENT COLLEGE CREDIT COURSES**

Students at Pulaski High School have the opportunity to participate in courses which may earn them college credit. The courses listed here are also referenced in other sections of the Course Description Book, so please pay careful attention to course numbers when selecting your classes for the next school year.

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Year	1	Advanced Placement European History (Taken in place of World History) [idx]	107B1X	–	X	X	X	B+ or higher in Civics. Must be enrolled in Adv Eng 10.
1 Year	1	Advanced Placement U.S. History (Can replace U.S. History) [idx]	115B1X	–	–	X	X	Civics and World History or European AP History
1 Year	1	Advanced Placement Psychology [idx]	152B1X	–	–	X	X	See course description.
1 Year	1	Advanced Placement United States Government & Politics [idx]	170B1X	–	X	X	X	See course description.
1 Year	1	Advanced Placement Human Geography [idx]	185B1X	X	X	X	X	Prerequisite: Freshmen with an “A” in 8 <sup>th</sup> grade social studies, Lexile level of 1100+, and passion for social studies, Sophomores who earned an “A” in Civics, Juniors or Seniors
1 Year	1	Advanced Placement Statistics [idx]	252B1X	#	X	X	X	Math 3 or Math 3 Advanced
1 Year	1	PHS-St. Norbert College Statistics [idx]	253B1X	–	X	X	X	Math 3 or Math 3 Advanced
1 Year	1-H.S. / 4-College	PHS-St. Norbert College Calculus 1 [idx]	265B1X	–	–	X	X	Pre-Calculus & SNC acceptance for SNC credit.
1 Year	1	Advanced Placement Calculus 1 AB [idx]	266B1X	–	–	X	X	Pre-Calculus
1 Year	1-H.S. / 4-College	PHS-SNC Calculus 2 [idx]	275B1X	–	–	–	X	Calculus 1
1 Year	1	Advanced Placement Calculus 2 BC [idx]	276B1X	–	–	–	X	Calculus 1
1 Year	1	Advanced Placement Physics 1 [idx]	309B1X	–	–	X	X	See course description.
1 Year	1	Advanced Placement Physics 2 [idx]	310B1X	–	–	X	X	AP Physics 1
1 Year	1	Advanced Placement Biology [idx]	333B1X	#	#	X	X	See course description.
1 Year	1	Advanced Placement Chemistry [idx]	337B1X	#	#	X	X	See course description.
1 Year	1	Advanced Placement Environmental Science [idx]	345B1X	–	X	X	X	Math 1 and Biology
1 Sem	.5-H.S. / 3 UWGB College	Creative Writing (See course description)	422B1C	#	#	X	X	Eng 9 & 10
1 Year	1-H.S. / 8-College	PHS / St Norbert College English Course [idx]	490B1X	–	–	–	X	See course description.

1 Year	1-H.S. / 2-College	PHS: Intro to Engineering Design [idx] UWGB: Fund of Engineering Technology (ET 101)	600B1X	X	X	X	X	None
1 Year	1-H.S. / 3-College	PHS: Principles of Engineering [idx] UWGB: Mechanics of Materials (ENGR 220)	601B1X	-	X	X	X	Introduction to Engineering Design
1 Year	1-H.S. / 3-College	PHS: Engineering Design & Development UWGB: Parametric Modeling (ET 207)	610B1X	-	-	X	X	Civil Engineering & Arch or Principles of Engineering or Computer Science Principles
1 Sem	.5-H.S. / 3-College	PHS: Computer Aided Drafting UWGB: Fundamentals of Drawing (ET 105)	613B1B	X	X	X	X	None
1 Year	1	Advanced Placement French V [idx]	705B1X	-	-	#	X	See course description.
1 Year	1-H.S. / 3 plus 11 retro-College	PHS-UWGB Spanish V [idx]	726B1X	-	-	#	X	Spanish IV and grade of B or better in Spanish IV.
1 Year	1	Advanced Placement Music Theory [idx]	766B1X	-	#	X	X	Music Theory exceptions may be granted after successful completion of Music Theory class and instructor approval.

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling Department and course instructor. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels

[idx] This course is Grade Indexed

### **PROJECT LEAD THE WAY**

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Year	1	Introduction to Engineering Design [idx]	600B1X	X	X	X	X	None
1 Year	1	Principles of Engineering [idx]	601B1X	-	X	X	X	Introduction to Engineering Design
1 Year	1	Computer Science Principles [idx]	602B1X	-	X	X	X	Math 2
1 Year	1	Civil Engineering & Architecture [idx]	604B1X	-	X	X	X	IED or Architecture

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling Department and course instructor. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels

[idx] This course is Grade Indexed



## **ADVANCED STANDING (ARTICULATED) CREDIT COURSES**

Students at Pulaski High School have the opportunity to participate in courses which may earn technical college credits. There is no charge to the student to participate in either a transcribed or advanced standing course.

**Advanced Standing Courses** are taught by high school teachers using a high school curriculum determined to be a close match to an NWTC course. A student must earn a “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 at NWTC. Advanced Standing agreements are transferable to all schools within the Technical College System, but do not appear on a student's technical college transcript.

***\*Students must take an advanced standing class their junior or senior year to earn NWTC credit. Freshmen and sophomore students cannot earn dual credit at NWTC.***

### **PHS offers the following advanced standing courses with NWTC:**

Course Length	NWTC Credit	PHS Credit	Name of Course	Course Number	Prerequisite
Semester	3	.5	PHS: Intro to Diversity Studies NWTC: Intro to Diversity Studies (10-809-172)	140B1C	Civics and World History required Sociology recommended
Semester	1	.5	PHS: Communicating – Writing NWTC: Communicating – Writing (31-801-385)	420B1C	English 9 & 10
Year	3	1	PHS: Culinary Arts 1 NWTC: Hospitality Finance (10-109-126)	508B1X	Foods For Life
Year	3	1	PHS: Culinary Arts 2 NWTC: Hospitality Facilities Mgmt (10-109-127)	509B1X	Foods for Life AND completed OR concurrent enrollment Culinary Arts 1
Year	1	1	PHS: Principles of Engineering (PLTW) NWTC: Mechanical Design – Exploring (10-606-111)	601B1X	IED
Year	1	1	PHS: Computer Science Principles NWTC: IT: Program: Logic-Intro (10-152-140)	602B1X	
Semester	3	.5	PHS: IT: Support Hardware-Intro NWTC: IT: Support Hardware-Intro (10-154-150)	656B1A	

## **TRANSCRIBED CREDIT COURSES**

**Transcribed Credit Courses** are taught by high school teachers with Wisconsin 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. Transcribed credit agreements are transferable to other Wisconsin technical colleges and may transfer to four-year universities.

***\*Transcribed credit classes are typically only open to junior and senior students for NWTC credit. The one exception to that is Computer Applications 2, which is open to freshmen through seniors for NWTC credit.***

**Financial Aid Change Impact:** NWTC does not want to penalize students that take transcribed credit with respect to future Financial Aid Eligibility. Based upon new FA rules, students are ineligible to receive aid if they fail to meet academic progress, not completing 70% of enrolled classes and/or not meeting a 2.0 GPA. **Based upon this, NWTC will only document transcribed credit grades of a “C” or better.**

**PHS offers the following transcribed courses with NWTC:**

Course Length	NWTC Credit	PHS Credit	Name of Course	Course Number	Prerequisite
Semester	2	.5	PHS: Vocational Math A/B NWTC: Vocational Math A & B (10-804-301) (10-804-302)	240B1A	Math 2
Semester	3	.5	PHS: Mathematical Reasoning NWTC: Mathematical Reasoning (10-804-134)	246B1B	NWTC: Vocational Math A/B or Placement by the HS Math Department
Year	3	1	PHS: Basic Anatomy NWTC: Basic Anatomy (10-806-189)	342B1X	Chemistry or Biology with a “C” or better
Year	4	1	PHS: General Anatomy & Physiology NWTC: General Anatomy & Physiology (10-806-177) [idx]	343B1X	Biology with at least a “B” and “C” or better in Chemistry required
Semester	3	.5	PHS: Oral/Interpersonal Communication NWTC: Oral/Interpersonal Communication (10-801-196)	435B1C	English 9 & 10
Semester	3	.5	PHS: English Composition 1 NWTC: English Composition 1 (10-801-136)	424B1A	English 9 & 10
Semester	3	.5	PHS: Child/Adolescent Development NWTC: IA: Child/Adolescent Development (10-522-106)	521B1C	
Semester	3	.5	PHS: Intro to Educational Practices NWTC: Introduction to Educational Practices (10-522-103)	523B1A	
Semester	3	.5	PHS: Health, Safety, and Nutrition for Early Childhood Education NWTC: ECE: Health, Safety, & Nutrition (10-307-167)	540B1A	
Semester	3	.5	PHS: Medical Terminology NWTC: Medical Terminology (10-501-101)	526B1C	
Semester	2	.5	PHS: Culture of Healthcare/Digital Literacy Healthcare NWTC: Culture of Healthcare (10-501-104) & NWTC: Digital Literacy Healthcare (10-501-107)	528B1A	
Year	4	1	PHS: Accounting 1 NWTC: Accounting 1 (10-101-110)	551B1X	Junior/Senior Status; Sophomore status with instructor approval
Semester	3	.5	PHS: Business Principles NWTC: Business Principles (10-102-158)	554B1A	Junior/Senior Status; Sophomore status with instructor approval
Semester	3	.5	PHS: Marketing Principles NWTC: Marketing Principles (10-104-110)	559B1B	Junior/Senior Status; Sophomore status with instructor approval
Semester	3	.5	PHS: Computer Applications 2 NWTC: Word - Intro (10-103-121) NWTC: Excel – Intro (10-103-131) NWTC: PP– Intro (10-103-151)	562B1B	Computer Applications 1 or Instructor approval

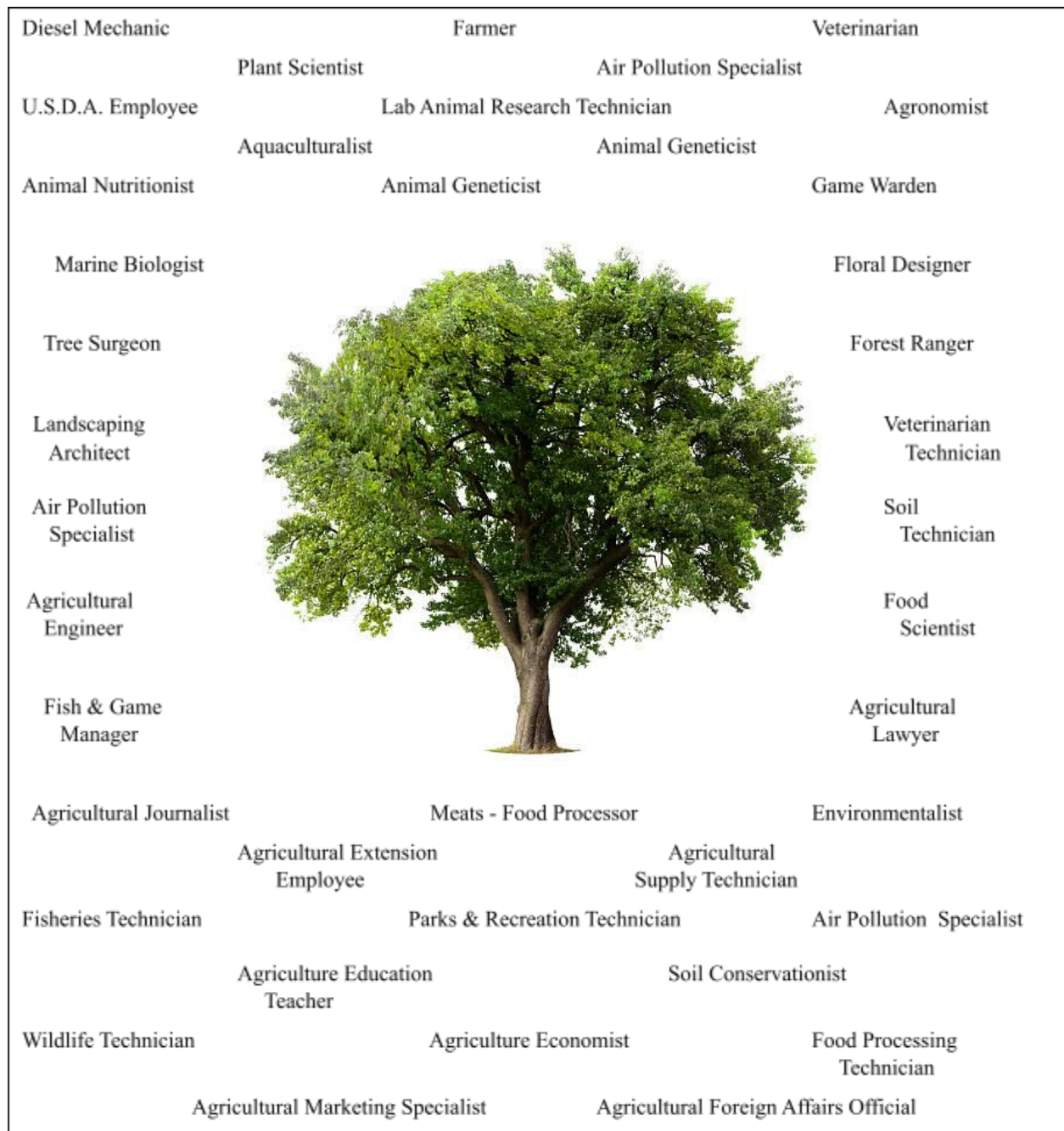
Year	3	1	PHS: Cybersecurity and Networking 1 & Cybersecurity and Networking 2 NWTC: IT: Network: Cisco 1 (10-150-163)	650B1A 651B1B	Complete Cybersecurity and Networking 1, then Cybersecurity and Networking 2
Semester	3	.5	PHS: Animal Science NWTC: Intro to Dairy Science (10-090-326)	674B1A	
Semester	3	.5	PHS: Agribusiness Management NWTC: Agribusiness Economics (10-090-303)	686B1A	
Semester	2	.5	PHS: Marine Biology & Aquaculture NWTC: Aquaculture & Aquaponics (10-090-115)	696B1C	
Semester	3	.5	PHS: Adv Photography NWTC: Photography-Digital (10-203-104)	746B1B	For Advanced Photo, Photography required

# Course Descriptions



# AGRICULTURE / LIFE SCIENCE / NATURAL RESOURCES

SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN AGRICULTURE



# Agriscience

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



Agricultural Education prepares students for successful careers and a lifetime of informed choices in global agriculture, food, fiber, and natural resource systems.



Biotechnology Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>Microbiologist</i>	<i>Cytologist</i>
1. <u>Biotechnology</u>	YES	<i>Biotechnologist</i>	<i>Doctor</i>
<b>Genetically Modified Organisms</b>	<b>Genomics</b>	<i>Geneticist</i>	<i>Nurse</i>
<b>Medical Applications</b>	<b>Tissue Culture</b>	<i>Oncologist</i>	<i>Biotech Lawyer</i>
<b>Feeding our Growing World</b>	<b>Science Ethics</b>	<i>Veterinarian</i>	<i>Animal Research</i>

Food Science and Processing Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>Milk Inspector</i>	<i>Canning and Preserving Plant Supervisor</i>
1. <u>Ag Products and Processing</u>	YES	<i>Cheese Maker</i>	<i>Food Chemist</i>
<b>Develop New Foods</b>	<b>Smoke Meats</b>	<i>Viticulturist</i>	<i>Food Research and Development</i>
<b>Experiment with Preservation</b>	<b>Taste Testing</b>	<i>Food Inspector</i>	<i>Butcher</i>

Animal Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>Animal Behaviorist</i>	<i>Veterinarian</i>
1. <u>Animal Science</u>	YES	<i>Professor of Animal Science</i>	<i>Geneticist</i>
2. <u>Marine Biology/ Aquaculture</u>	YES	<i>Livestock Evaluator</i>	<i>Ranch Manager</i>
3. <u>Small Vet 1</u>	NO	<i>Herdsmen</i>	<i>Animal Care Specialist</i>
4. <u>Small Vet 2</u>	YES	<i>Cattle Buyer</i>	<i>Dairy Scientist</i>
5. <u>Large Animal Vet</u>	YES	<i>Fish Hatchery Manager</i>	<i>Livestock Breeder</i>

Plant Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>Landscape Designer</i>	<i>Custom Chemical Applicator</i>
1. <u>Floriculture/ Landscape Design</u>	NO	<i>Florist</i>	<i>Crop Sales Representative</i>
2. <u>Intro to Horticulture</u>	YES	<i>Lawn Care Maintenance</i>	<i>Flower Grader</i>
3. <u>Forestry</u>	NO	<i>Forester</i>	<i>Tree Surgeon</i>
<b>Plant Cloning</b>	<b>Green Industry</b>	<i>Plant Science Professor</i>	<i>Turf Grower</i>
<b>Aquaponics</b>	<b>Crop/ Plant Research</b>	<i>Plant Breeder</i>	<i>Nursery Manager</i>

Power Structural and Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>Welder</i>	<i>Tractor Dealer</i>
1. <u>Ag Diesel Mechanics</u>	NO	<i>Custom Operator</i>	<i>Irrigation Engineer</i>
2. <u>Ag Mechanics and Construction</u>	NO	<i>Feedlot Equipment Operator</i>	<i>Machinery research &amp; Development</i>
3. <u>Advanced Ag Diesel</u>	NO	<i>Farm Equipment Mechanic</i>	<i>GPs Manufacturer</i>
<b>Fix and Repair Engines</b>	<b>Design and Build Systems</b>	<i>Agricultural Engineering Technician</i>	<i>Process Engineer</i>

Natural Resources & Environmental Service Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>DNR Warden</i>	<i>Aquatic/ Marine Biologist</i>
1. <u>Zoology/ Wildlife</u>	YES	<i>Wildlife Manager</i>	<i>Commercial Fisherman</i>
2. <u>Marine Biology/ Aquaculture</u>	YES	<i>Forester/ forestry Technician</i>	<i>Fish and Game Biologist</i>
3. <u>AP Environmental Science</u>	YES	<i>Ecologist</i>	<i>Conversation Scientist</i>
4. <u>Forestry</u>	NO	<i>Forester</i>	<i>Tree Surgeon</i>
5. <u>Outdoor Recreation</u>	NO	<i>DNR Warden</i>	<i>Small Engine Tech</i>
<b>Manage Wildlife</b>	<b>Work Outside</b>	<i>Park Manager</i>	<i>Soil Extension Agent</i>
<b>Positively Impact our World</b>	<b>Raise Fish</b>	<i>Environmental Impact Evaluator</i>	<i>Hydrologist</i>

Agribusiness Systems		Career Options	
Recommended Order of Courses	Science Equivalency	<i>Farm Auctioneer</i>	<i>Agricultural Lawyer</i>
1. <u>Agribusiness Management</u>	NO	<i>Credit Analyst</i>	<i>Agricultural Economist</i>
2. <u>Agribusiness Coop</u>	NO	<i>Buying Agent</i>	<i>Agricultural Consultant</i>
<b>Communications</b>	<b>Marketing</b>	<i>Grain Merchandiser</i>	<i>Agricultural Publicist</i>



# AGRICULTURE / LIFE SCIENCE / NATURAL RESOURCES

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite
1 Sem	.5	Biotechnology-ES	670B1B	–	#	X	X	Prerequisite: Biology Recommended: Chemistry, & 1 plant or animal science course
1 Sem	.5	Sm Animal Vet Sci 1	672B1A	X	X	X	X	See Description
1 Sem	.5	Sm Animal Vet Sci 2-ES	673B1B	X	X	X	X	Small Vet 1
1 Sem	.5	Animal Science 1-ES	674B1A	X	X	X	X	See Description
1 Sem	.5	Large Animal Vet Sci-ES	676B1A	–	X	X	X	See Description
1 Sem	.5	Ag Engineering & Diesel Mechanics	680B1C	X	X	X	X	
1 Year	1	Advanced Ag Engineering & Diesel Mechanics	681B1X	–	X	X	X	Ag Engineering & Diesel Mechanics
1 Sem	.5	Ag Mechanization & Construction	685B1B	#	X	X	X	
1 Sem	.5	Agribusiness Management	686B1A	#	X	X	X	
1 Sem	.5	Ag Products & Processing-ES	687B1C	X	X	X	X	
1 Sem	.5	Outdoor Recreation	689B1B	X	X	X	X	
1 Sem	.5	Floriculture / Landscape Design	690B1B	X	X	X	X	
1 Sem	.5	Horticulture-ES	692B1B	–	X	X	X	
1 Sem	.5	Zoology & Wildlife Science-ES	695B1C	X	X	X	X	
1 Sem	.5	Marine Biology & Aquaculture-ES	696B1C	X	X	X	X	
1 Sem	.5	Forestry	698B1A	X	X	X	X	
1 Year	1	Advanced Placement Environmental Science-ES [idx]	345B1X	–	X	X	X	Math 1 and Biology
1 Year	.5	Co-Op Class	COPBCX	–	–	–	X	
1 Year	1	Agribusiness Co-Op Job	COPAWX	–	–	–	X	Take in conjunction with Agribusiness Co-Op Class

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Agriculture/ Life Science/ Natural Resource Departments. Please contact the PHS Counseling office with questions.

X Enrollment available to students in designated grade levels

[idx] This course is Grade Indexed

ES Denotes “Equivalent Science”—The Wisconsin Department of Instruction and the UW System has designated these courses as science equivalent courses. Most UW System campuses will count the completion of one or more approved science equivalent courses as the third unit of science as long as the student has taken some combination of biology/chemistry/physics for the other two units.

**670B1B - BIOTECHNOLOGY: CONNECTION OF HUMANS, ANIMALS, & PLANTS-ES**

Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: Biology Recommended: Chemistry, & 1 plant or animal science course
Explore genetic engineering, DNA fingerprinting, microbiology, immunology, animal/plant tissue culturing, transgenic animals/plants and cloning. Expose yourself to cutting edge biotechnology opportunities of the 21 <sup>st</sup> century. This course will integrate science and agricultural concepts by allowing students to “learn by doing.” The course will allow the student to earn science credit.			

**672B1A - SMALL ANIMAL VETERINARIAN SCIENCE 1**

Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
This class will explore units in veterinary sciences with emphasis on small domesticated pets. Much of the material can be applied to human medicine and is strongly recommended for students interested in the human medical field because of the hands-on approach to actually doing surgery on animals and working with the mammal system. Students will have an opportunity to apply practices used by veterinarians and animal scientists with dogs, cats, and laboratory animals. Units in reproductive physiology and anatomy, feeding practices, disease control, management practices, handling techniques and animal housing will be discussed. Field trips, labs, professional guest speakers, and actual surgeries will supplement the classroom instruction.			

**673B1B - SMALL ANIMAL VETERINARIAN SCIENCE 2-ES**

Semester Course	Grades 9-12	.5 Credit	Prerequisite: Small Animal Vet Science 1
This course will expand on material covered in Small Animal Veterinarian Science I by advancing the students skills in veterinary science. The class will deal with small domesticated pets such as dogs, cats, lab animals, hamsters, guinea pigs, caged birds, fish/aquariums, rabbits, reptiles and exotic animals. The student will learn basic training and grooming principles for dogs and cats. The class will also deal with parasites that affect pets. Students will work as lab assistants doing DNA fingerprints, blood tests, urine tests, and animal tissue cultures on their pets. Students will gain work experience in the operation and management of a veterinary office. Students will also assume the role of a veterinarian and develop skills in dissection and advanced surgery techniques.			

**674B1A - ANIMAL SCIENCE 1-ES \***

Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
In this course, students will acquire skills to evaluate livestock and dairy animals and how to read and evaluate genetic pedigrees. Anatomy, judging techniques, and industry standards for cattle, hogs, sheep, poultry and dairy cattle will be discussed. A unit in meat evaluation and meat science will also be included. Students will complete food science labs which look at the various products that are produced in the animal industry.			
<b>*The course is transcribed with NWTC's Intro to Dairy Science (10-090-326).</b>			

**676B1B - LARGE ANIMAL VETERINARIAN SCIENCE-ES**

Semester Course	Grades 10-12	.5 Credit	Prerequisite: None. Small Animal Veterinary Sciences 1 and 2 and Animal Science 1 are recommended
In this course, students will focus on the large animal veterinary sciences with specialization in horses, dairy, beef, swine, and sheep species. Emphasis will be placed upon knowledge and practices that veterinarians and animal scientists use daily with those animals. This is an excellent class for the student interested in the human medicine field because of the laboratory experiments done in class. Reproductive physiology, anatomy, food science, genetics, biotechnology, surgical procedures and techniques, nutrition, diseases, parasites, artificial insemination and management of large animals will be explored.			

**680B1B - AG ENGINEERING & DIESEL MECHANICS**

Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
This practical application class will focus on the repair and restoration of large, heavy-duty engine mechanics from an industry and ag engineering standpoint. Students will learn safe operation of equipment used for the large engine rebuilding process. You will also learn agricultural engineering practices, restoration body work, maintenance, adjustment, and repair of agricultural diesel engine systems. Emphasis will be on the engine overhaul procedures, including units on engine cooling, lubrication and powertrain systems. Technical Precision Measuring devices will be used on a regular basis to make sound management decisions on the engine overhaul process, and to complete essential preventive maintenance procedures necessary to keep these engines working at optimum efficiency. Shop instruction will include a group project on a massive diesel engine overhaul. The students will learn about each phase of the rebuilding process, starting with the basic design differences of various brands of engines, to cylinder head, fuel injection, bottom end, and the cylinder remanufacturing processes. The course will also start to develop a framework on how to restore and/or recondition agricultural equipment for future courses in either the Advanced Ag Engineering & Diesel Mechanics course or the Farm Mechanization and Construction course.			

<b>681B1X - ADVANCED AG ENGINEERING &amp; DIESEL MECHANICS</b>			
Year Course	Grades 10-12	1 Credit	Prerequisite: Ag Engineering & Diesel Mechanics and access to a diesel engine
<p>This advanced level course is designed for students pursuing a career in the diesel and agriculture mechanical field, and have already excelled in the Ag Engineering &amp; Diesel Mechanics class the previous year. Students will develop, plan, implement and finance advanced level agricultural mechanical projects of their choice. Emphasis will be placed on advanced techniques in the engine overhaul process, with advanced skills being used in all phases of this elaborate and demanding technical field. Other competencies involve diagnosing electrical system malfunctions, cylinder head failures, fuel injector &amp; injection pump maintenance, Standard, CV and Hydrostatic transmission maintenance along with complete powertrain analysis. Advanced engine diagnostic trouble shooting techniques, advanced diesel engine maintenance, specialized repair applications and advanced preventative maintenance procedures will be emphasized. Student projects should be well thought out in advance of the school year and should be ready to be brought in by the 1<sup>st</sup> week of October. Students also have the opportunity to compete in a national and state tractor restoration contest if they would like with the possibility of winning \$5000. If a student does not have their own advanced project, they should contact community members and/or relatives the summer before to alert our community that a project is needed and to help set-up the project with you before the class starts.</p>			

<b>685B1B - AG MECHANIZATION &amp; CONSTRUCTION</b>			
Semester Course	Grade 10-12 (#)	.5 Credit	Prerequisite: None
<p>This shop-based class is designed to meet the needs of any students either presently working in agribusiness or who plan to someday manage an agribusiness. This class will focus its attention on training students to repair and maintain all of the equipment production agriculturalists use on a regular day-to-day basis. Hands-on learning in the shop will be used to repair, set-up and maintain farm tillage, planting, harvesting, granular and sprayer equipment. Special emphasis in TMR mixers, silo unloaders, skid steers, grain drying, barn wiring, basic welding and construction techniques for farm structures, concrete work, basic refrigeration, ag plumbing, land tiling, irrigation systems, agronomy techniques, hydraulics and troubleshooting milk parlor systems are topics that will be explored with real-life, hands-on applications. Guest speakers, field trips and various types of equipment will be brought into the shop for students to gain full knowledge of how all of these new technologies can be used efficiently and repaired effectively.</p>			

<b>686B1A - AGRIBUSINESS MANAGEMENT *</b>			
Semester Course	Grade 10-12 (#)	.5 Credit	Prerequisites: None
<p>The Agribusiness Management course is designed for prospective Agribusiness managers and management consultants that will work in the commercial environment of modern agribusiness in the Midwest. Students will develop innovative and strategic methods for advancement in today's world of production agriculture. Topics that will be explored include livestock housing, agricultural construction, human resource management, production enterprises, budgeting, managing equipment, animal management decisions, crop scheduling, financial analysis and natural resource management.</p>			
<b>*This course is transcribed with NWTC's Agribusiness Economics (10-090-303) when taken as a junior or senior.</b>			

<b>687B1A – AG PRODUCTS &amp; PROCESSING-ES</b>			
Semester Course	Grade 9-12	.5 Credit	Prerequisites: None
<p>This course is designed to introduce students to the world of food preservation, food origins and how modern production practices affect our food quality in our ever-changing world. Students will be able to discover new food sources, ways to process, preserve, package or store food, food processing career opportunities, and inspecting food processing areas. Learning will focus on labs with modern processes and procedures in meat selection and cut identification, dairy processing, fruit and vegetable processing, and cereal grain processing. There will be activity-based experiences including meat ID and cutting, making of brats, cheese, and other food processing practices taking the product from the field to the store shelf. Food processing is the largest industry in the United States. As the industry tries to meet consumer demands, more highly knowledgeable and competently trained food technologists are needed. This course offers advanced exploration in a field where salaries are competitive and graduates with this knowledge are in demand.</p>			

<b>689B1B - OUTDOOR RECREATION</b>			
Semester Course	Grades 9–12	.5 Credit	Prerequisite: None
<p>Outdoor Recreation will allow students the chance to learn principles of environmental education in relationship to hands-on stewardship of the land. Topics of class will include county, state, national and international environmental travel; the correct use of GPS units; and forest utilization strategies according to our school forest wise use plan. Students will be involved in numerous projects including ATV safety certification, snowmobile safety certification, boaters safety, trapper ed., and hunter safety. For anyone who enjoys spending time outdoors, this is the class for you! This course will also address FFA and Supervised Agricultural Experiences.</p>			

<b>690B1B - FLORICULTURE/LANDSCAPE DESIGN</b>			
Semester Course	Grades 9–12	.5 Credit	Prerequisite: None
<p>This class is for those students who would like more detailed instruction and experience in the horticulture industry. Students will get hands-on experience in landscaping architecture using CAD computer programs and architectural drawings made by the students. Students will be constructing 3-D scale models of their preferred landscape. Students will learn principles of landscape design, floral design, boutonniere and corsage design, using silk and natural flowers, identification of common landscaping trees, shrubs, ground covers, and hardy perennials. Greenhouse gardening and greenhouse management will be explored within the greenhouse. Actual marketing and sales techniques will also be applied. Horticulture Co-op placement is possible following Horticulture, Floriculture/Landscaping and Advanced Greenhouse Management research design.</p>			

<b>692B1B - HORTICULTURE-ES</b>			
Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: None
<p>This course is designed to learn about all areas of horticulture and greenhouse practices. Students will acquire skills in asexual and sexual propagation with hands-on experience of proper fertilizing practices, pest management techniques, greenhouse structures and engineering, caring for flower beds, lawns, shrubs, trees, fruits and vegetables, starting plants from seeds and cuttings and air layering from within the greenhouse. Students will learn to identify bedding and foliage plants, plant parts and functions with units on genetic cloning and “Wisconsin Fast Plants.” Students will also have hands-on experience in landscaping practices, growing various greenhouse crops, such as Poinsettias, Chrysanthemums, bulb crops, pruning and caring of fruit trees, with extensive laboratory techniques in tissue micropropagation and research design. The Pulaski High Greenhouse will be our classroom. Horticulture Co-op placement is possible following Horticulture and Advanced Greenhouse Management.</p>			

<b>695B1A - ZOOLOGY &amp; WILDLIFE SCIENCE-ES</b>			
Semester Course	Grades 9–12	.5 Credit	Prerequisite: None
<p>How many of our worlds’ wildlife species are in danger of disappearing from our planet? What can we do to help these animals survive and flourish? This course will survey the animal kingdom and the diversity of animals on this planet as well as here in Wisconsin. This course takes an intensive look into individual animal species. Students will study animal classification, structure, and function. A variety of the world's habitats and species are examined. Contemporary issues such as endangered species, wildlife management and habitat degradation are explored.</p>			

<b>696B1A - MARINE BIOLOGY &amp; AQUACULTURE-ES *</b>			
Semester Course	Grades 9–12	.5 Credit	Prerequisite: None
<p>How does the pollution we make in our environment affect our marine and land ecosystems? What can we do to protect our worlds’ oceans and their organisms? This course will give a scientific introduction to the study of marine organisms, their environment and the interactions that occur between them. Areas of exploration include coral reef communities, marine fish and mammals, properties of the oceans, estuaries, and other marine ecology. Students will understand the important relationships between marine life and freshwater systems. Additionally, the effects of man on the environment and new biotechnologies used to maintain a pristine earth will be examined.</p> <p><b>*This course is transcribed with NWTc’s Aquaculture and Aquaponics (10-090-115).</b></p>			

<b>698B1A - FORESTRY</b>			
Semester Course	Grades 9–12	.5 Credit	Prerequisite: None
<p>In Forestry, students will gain the necessary skills to start them on the lifelong process of becoming that knowledgeable woodsman and savvy preservationist. Students will focus their experience on the native forest species that inhabit Wisconsin. Units of study include ecology, habitat management, wildland fires, urban forestry and Tree ID. Wisconsin forest land will help students embark on tree identification, tree structure and growth, forest ecosystem management, silviculture, and timber production. Learning enrichment opportunities include developing forest management plans, and maintenance of the school forest. This course will also address FFA and Supervised Agricultural Experiences.</p>			

<b>345B1X - ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE-ES      Grade Indexed (see pg 16)</b>			
Year Course	Grades 10–12	1 Credit	Prerequisite: Math 1 and Biology
<p>AP Environmental Science provides an investigative approach to the interrelationships of the natural world through the study of the fundamental concepts, principles, and methodologies of environmental science, with an emphasis on inquiry and critical thinking skills including problem solving and experimental investigations. Topics of study include Earth systems and resources, ecosystems and energy flow, population biology, land and water use, energy resources and consumption, pollution, agriculture conservation and global change. Laboratory work and field studies are an integral component of this course.</p> <p><b>*Students will be required to take the Advanced Placement test.</b></p>			

COPBCX - CO-OP CLASS			
Year Course	Grade 12	.5 Credit	Prerequisite: Two courses in this department
This senior-level course is designed for students interested in a school-day work experience their senior year. Topics covered include career opportunities, career decision-making process, human relations in the workplace (teamwork, leadership, ethics, sexual harassment, attitude), communications (listening, speaking, writing), legal aspects of employment (payroll, unions), and job-seeking skills.			
*This is a required course for participation in the co-op work experience.			

COPAWX - AGRIBUSINESS CO-OP JOB			
Year Course	Grade 12	1 Credit	Prerequisite: Concurrent registration in Agribusiness Co-Op Class
Students are able to apply classroom skills by participating in a work-release program.			
Students enrolled in course COPAWX must obtain a job in an Agribusiness/Horticulture related career area:			
<u>Agriculture</u> : Landscape, Greenhouse, Agricultural Production, Horticulture <u>Science</u> : Animal Science, Biotechnician, Veterinarian, Soil Scientists, Food Science <u>Environment</u> : Park Worker, Forestry, Paper Science, Conservation Pollution Control, DNR <u>Mechanics</u> : Diesel Mechanics, Agricultural Mechanics			
Note: Students can elect to take the classroom portion (COPBCX) without participating in the job site portion (COPAWX). Students <u>must</u> take the classroom portion if they elect to participate in the job site portion.			

# ART

## OCCUPATIONS RELATED TO ART

### Fine Art

- Airbrush Artist / Spray Painter
- Architectural Illustrator
- Book / Storybook Illustrator
- Graphic Illustrator
- Technical / Textbook Illustrator
- Cartoonist / Caricaturist
- Commercial Artist
- Fine Artist (Painter)
- Printer Maker / Screen Printer
- Courtroom Artist
- Art Conservationist
- Special Effects Makeup
- Mural Artist
- Tattoo Artist



### Spatial Design

- Architect
- Landscape Architect
- Urban Designer / Town Planner
- Playground / Theme Park / Sports Arena / Golf Course Designer
- Interior Designer / Decorator
- Set / Stage Design

### 3D Product Design

- Industrial Designer / Bridge Designer
- Toy Designer / Kite Designer / Utensil Designer
- Miniature Model Maker / Mock-up Artist
- Stained Glass Window Designer
- Prop Designer
- Food Product Designer
- Potter / Ceramic Designer
- Jeweler
- Weaver
- Glass Artist

### Arranging / Display

- Food Stylist
- Floral Arranger
- Display and Exhibition Planner
- Art / Design / Color Consultant
- Gallery Owner / Assistant
- Museum Curator
- Personal Stylist
- Picture Framer
- Online Curator

### Writing / Analytical

- Art Curriculum Writer
- Art Historian / Critic
- Arts Administrator



### Photography

- Advertising Photographer
- Portrait / Fashion Photographer
- Photo Journalist
- Food / Nature Photographer
- Underwater Photographer
- Wedding Photographer
- Stock Photo Seller
- Director of Photography



### Digital / Multi-Media

- Animator
- Concept Artist
- Digital Illustrator
- Digital 3D Modeler
- Web Designer
- Website Owner / Blogger
- iPhone / Android App Designer
- Television / Film Producer
- Documentary Filmmaker
- Camera Operator
- Film Editor
- Special Effects Designer
- Video Game Design
- YouTube Video Creator

### Graphic Design

- Advertising Director
- Logo / Branding Designer
- Advertisement Designer
- Sign Writer
- Magazine Layout Designer
- Book / eBook Designer
- Graphic Novel Author
- Packaging Designer
- Calendar / Stationery / Wallpaper Designer
- Typographer



### Fashion / Textiles

- Fiber Artist
- Accessory Designer (shoes / bags / hats)
- Dressmaker
- Embroiderer
- Fashion Consultant
- Fashion Designer / Sports Apparel Designer
- Fashion Merchandising
- Pattern Maker
- Costume Designer
- Quilt / Rug Linen / Fabric / Textile Designer
- T-shirt Designer



Involvement in high school art courses will help you to become creative and flexible in your thinking. These courses will help you to communicate more effectively by teaching you how to visualize and share your ideas. Each course will provide you with an opportunity to incorporate personal interests and knowledge gained in other classes.

The following courses are offered to meet the needs of students who enjoy art and who wish to continue their education in the visual arts or related fields. Each course is designed to meet the interests of students who want to broaden their understanding and appreciation of the visual arts.

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite
1 Year	1	Art Fundamentals	730B1X	X	X	X	X	
1 Sem	.5	Art & Design	731B1A	X	X	X	X	
1 Sem	.5	Drawing	733B1C	X	X	X	X	
1 Sem	.5	Advanced Drawing	742B1B	X	X	X	X	Drawing
1 Sem	.5	Painting	732B1A	X	X	X	X	Drawing
1 Sem	.5	Ceramics	737B1C	X	X	X	X	
1 Sem	.5	Art Metals	738B1A	X	X	X	X	
1 Sem	.5	Textiles	734B1B	X	X	X	X	
1 Sem	.5	Sculpture	735B1B	X	X	X	X	
1 Sem	.5	3D Studio Advanced Art	739B1A	—	X	X	X	Complete one or more: Ceramics, Art Metals, Textiles or Sculpture
1 Year	1	Senior Art Portfolio/ AP Art & Design Program	740B1X	—	—	—	X	Drawing/Art & Design/ Painting/One other art class
1 Sem	.5	Art in Society	741B1A	X	X	X	X	
1 Sem	.5	Graphic Design	743B1B	X	X	X	X	
1 Sem	.5	Photography	745B1C	X	X	X	X	
1 Sem	.5	Advanced Photography *	746B1B	X	X	X	X	Photography

X Enrollment available to students in designated grade levels

[idx] This course is Grade Indexed

X Department's recommended grade level for enrollment



<b>730B1X - ART FUNDAMENTALS</b>			
Year Course	Grades 9-12	1 Credit	Prerequisite: None
Art Fundamentals introduces students to a wide variety of art mediums and develops students' skills that are necessary to design, create, and understand art at a beginning to intermediate level. Short term, long term and independent projects are assigned. Projects include but are not limited to drawing, painting, printmaking, metal work, wheel thrown pottery, sculpture and graphic design animation.			
<b>731B1A - ART AND DESIGN</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Art and Design develops students' understanding of the Elements and Principles of Design through a variety of creative projects. An emphasis will be placed on learning skills needed to visually communicate ideas through the use of design techniques. A variety of production tools and techniques will be studied throughout the semester including but not limited to drawing, painting and sculpture.			
<b>733B1C - DRAWING</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Drawing is an introduction to visual expression, communication and personal creativity through the exploration of various drawing skills and techniques. Drawing will include the study of shading, form, line quality, still life, landscape, portrait, human figure, along with other drawing techniques and subject matter. Formal concepts such as shading, line, texture, value and perspective will be explored throughout the semester.			
<b>742B1B - ADVANCED DRAWING</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Drawing
Advanced Drawing skills and techniques will include developing a strong understanding of perspective, still life, and the human figure along with exploring a variety of drawing mediums and subjects. Advanced Drawing will prepare students for the Senior Art Portfolio / AP Art Studio.			
<b>732B1A - PAINTING</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Drawing
Painting will introduce students to a variety of painting skills and techniques including the study of airbrush, watercolor and acrylic canvas painting. Painting will prepare students for the Senior Art Portfolio / AP Art & Design Program.			
<b>737B1C - CERAMICS</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Ceramics focuses on the use of clay and will introduce students to both wheel throwing and hand building techniques. Design concepts including form, texture and function will be explored through this course.			
<b>738B1A – ART METALS</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Art Metals will introduce students to both fabrication and casting techniques, including the use of a 3D printer. Design concepts including form, texture and function will be explored through this course.			
<b>734B1B - TEXTILES</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
An introductory overview to the field of textiles and fiber arts. Students will learn the basic process of fiber sculpture, textile construction, embellishment fabric, dying and papermaking.			
<b>735B1B - SCULPTURE</b>			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Sculpture will introduce students to a variety of methods including additive and subtractive construction techniques using a variety of construction materials. Design concepts including form, texture, space and function will be explored through this course.			




739B1A – 3D STUDIO ADVANCED ART			
Semester Course	Grades 10-12	.5 Credit	Prerequisite: Ceramics or Art Metals or Sculpture or Textiles
3D Studio Advanced Art is an intermediate level class designed to provide the opportunity for specialized skill development. Each student will select an area of study they wish to expand upon based on their previous experience. This could include pottery, sculpture, art metals, fiber arts, or leather crafting. Originality of design and refinement of production skills will be stressed. Students are limited to working in design areas that they experienced in the previously taken Ceramics, Art Metals, Sculpture or Textile classes. <b>(3D Studio Advanced Art may be repeated.)</b>			

740B1X – SENIOR ART PORTFOLIO / ADVANCED PLACEMENT ART & DESIGN PROGRAM			
Year Course	Grade 12	1 Credit	Prerequisite: Drawing, Art & Design + one additional
The Senior Art Portfolio is offered to meet the needs of highly motivated and/or career oriented students. This course is portfolio driven and the specific medium of study will be limited to a single art discipline for each quarter and will be planned at the beginning of each semester. Student assessment will consist of 4 projects each quarter, related art research and the development of an artwork portfolio. This course can be adapted to meet the requirements for the AP Art and Design Program. Additional work will be required to prepare students for submitting their art portfolio to the AP Art and Design Board.			

741B1A - ART IN SOCIETY			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Art in Society will study the value of art in society and how art improves the community we live in. Students will complete four projects over the course of the semester ranging from small group projects to full class projects. Topics covered will include: mask / costume design, mural painting, sculptural construction / installation, and public art. This course will emphasize teamwork within a variety of art mediums ranging from drawing and painting to 3D sculptures.			

743B1B – GRAPHIC DESIGN			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Graphic Design is an introduction to computer generated images and typography. Students will be working with Adobe Illustrator and Adobe Photoshop using iMac computers, along with iPad apps. Students will design images based on practical visual problems for self-promotion, logo design, web design, and other real world solutions. This course instructs the student in graphic design skills employing traditional and digital tools, materials and procedures employed in the communication arts industry. The focus will be on finding creative visual solutions to communication problems using technical skills studied during this class. Students will work with the Pulaski Technology Department to provide original graphics and icons to be used on the district website and other media uses as needed.			

745B1C – PHOTOGRAPHY			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
<p>Photography will explore both 35mm and digital photography. Students will learn about the parts of the camera, camera settings, film developing, darkroom techniques, and how to use digital editing software to edit their photographs. This course will require time outside of class to take pictures. Written and reading assignments will be required in addition to in-class work, taking and developing photographs. <u>It is recommended that a student have a digital camera accessible for projects so that they may become experts with the equipment they will use after the course.</u> A limited number of cameras will be available for students to use who do not already have a camera.</p> 			

746B1B - ADVANCED PHOTOGRAPHY *			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Photography
Advanced Photography builds upon the skills learned in Photography. Specific subject areas will be emphasized to develop skill and knowledge when working with different subjects and lighting conditions. Students will work with 35mm, digital or a combination of both over the course of the semester. (Advanced Photography may be repeated.)			
<b>*This course is transcribed with NWTC's Photography – Digital (10-203-104) when taken as a sophomore, junior or senior.</b>			

# BUSINESS & INFORMATION TECHNOLOGY EDUCATION

SOME OCCUPATIONS RELATED TO INTEREST  
AND ABILITY IN BUSINESS EDUCATION

Office Planner

Banker

Computer Consultant

Human Resources Director

Training Specialist

Advertising Manager

Marketing Director

Financial Planner

Accountant

Real Estate Agent

Insurance Specialist

Information Specialist

Receptionist

File Clerk

Business Manager

Accounting



Buyer

Bank Teller

Auditor

Loan Officer

Loan Clerk

Salesperson

Cashier

Word Processing

Public Relations

Court Reporter

Administrative Assistant

Accounting Assistant

In Home Sales

Medical Secretary

Telemarketer

Information Specialist

Clerk

Records Manager

## **BUSINESS & INFORMATION TECHNOLOGY EDUCATION**

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Sem	.5	Introduction to Business	550B1A	X	X	_	_	
1 Year	1	Accounting 1	551B1X	_	#	X	X	
1 Year	1	Accounting 2	552B1X	_	_	X	X	Accounting 1
1 Sem	.5	Keyboarding/Intro To Microsoft Word	555B1C	X	X	X	X	Key under 35 wpm
1 Sem	.5	Business Principles	554B1B	_	#	X	X	
1 Sem	.5	Personal Finance	556B1C	_	_	X	X	
1 Sem	.5	Business Law	558B1B	X	X	X	X	
1 Sem	.5	Marketing Principles	559B1A	_	#	X	X	
1 Year	.5	Social Media Marketing	560B1X	_	X	X	X	
1 Sem	.5	Computer Applications 1	561B1A	X	X	X	X	
1 Sem	.5	Computer Applications 2	562B1A	X	X	X	X	Computer Apps 1 or consent of instructor
1 Sem	.5	Entrepreneurship	563B1B	X	X	X	X	
1 Sem	.5	College 101	564B1C			X	X	
1 Year	.5	Co-op Class	COPBCX	_	_	_	X	Computer Apps 1
1 Year	1	Business Co-op Job	COPBWX	_	_	_	X	See Course Description

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Business Departments. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels

[idx] This course is Grade Indexed

550B1A – INTRODUCTION TO BUSINESS			
Semester Course	Grades 9-10	.5 Credit	Prerequisite: None
This course is a must for students thinking about a career in business or for gathering more information to see if business is a career path. The course will introduce business concepts to include kinds of business, types of businesses, the effect of the economy on businesses, uses of technology within business, global effects of businesses, and characteristics of successful businesses. The class will focus on the 21 <sup>st</sup> Century Skills for students while addressing the career clusters of Business Management, Marketing, and Finance.			

551B1X - ACCOUNTING 1 *			
Year Course	Grades 11-12 (#) 10 - with instructor approval	1 Credit	Prerequisite: None
Learn the language of business! Students will develop a foundation in basic accounting theory and procedures. Topics covered include an introduction to accounting, careers in accounting and the entire accounting cycle. Computerized accounting software is used with extensive work in Excel. It is recommended that students pursuing any business career path take one or two years of accounting.			
<b>*This course is transcribed with NWTC's Accounting 1 (10-101-110) when taken as a sophomore (with instructor approval), junior or senior.</b>			

552B1X - ACCOUNTING 2			
Year Course	Grades 11-12	1 Credit	Prerequisite: Accounting 1
This course offers students the opportunity to develop skills in all phases of accounting. Topics covered include inventories, fixed assets, current liabilities including payroll and notes payable, business formations, capital stocks, dividends, bonds, cash flow statements, and financial statement analysis.			

555B1C - INTRO TO KEYBOARDING			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Key under 35 wpm
This course is intended for students who haven't had any formal keyboard training, key under 35 wpm or want to improve technique and speed. Students will learn proper fingering techniques and be introduced to various business documents such as memorandums, letters, reports, and tables. The state of Wisconsin recommends that students type five words per minute times their grade level with an accuracy of 98% or better.			
Software used: Microsoft Word			

554B1B - BUSINESS PRINCIPLES *			
Semester Course	Grades 11-12 (#) 10 - with instructor approval	.5 Credit	Prerequisite: None
This course will explore all aspects of business as it applies to management. Topics will include: organization/management process of human resources, production, operations, marketing, distribution, and finances; risk management; ethics/legalistic management; international business; accounting, computers and data processing.			
<b>*This course is transcribed with NWTC's Business Principles (10-102-158) when taken as a sophomore (with instructor approval), junior or senior.</b>			

556B1C - PERSONAL FINANCE			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: None
This course fulfills the Personal Financial Management graduation credit requirement. Using the new Wisconsin Financial Literacy standards, topics covered include: understanding your paycheck, apartment renting, home buying, car purchasing, credit cards, loans, budgeting, checking accounts and debit cards, savings, options for investing, planning for your retirement, being a smart consumer, donating, and insurance (health, life, auto, home, liability).			

558B1B - BUSINESS LAW			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Business Law is a course that is designed to give students the knowledge they need regarding a basis of law while preparing students to make ethical, legally-minded, professional decisions currently and in the future. Topics covered include laws relating to contracts, employment and intellectual property. Other topics are court procedure, criminal and civil law, and white collar crime. Real life case studies, mock trials, and debates make this class an intriguing one!			

559B1A - MARKETING PRINCIPLES *			
Semester Course	Grades 11-12 (#) 10 - with instructor approval	.5 Credit	Prerequisite: None
<p>This course examines the business function of marketing. Students will learn how marketers deliver value in satisfying customer needs and wants, determine which target markets the organization can best serve, and decide upon appropriate products, services, and programs to serve these markets. Topics include branding and product development, pricing strategies, marketing research, promotion, digital marketing, and marketing for sports &amp; entertainment industries.</p> <p><b>*This course is transcribed with NWTC's Marketing Principles (10-104-110) when taken as a junior or senior.</b></p>			

560B1X - SOCIAL MEDIA MARKETING			
Year Course	Grades 10-12 (#)	.5 Credit	Prerequisite: None
<p>Take your social media to the next level. This class will explore the social media revolution and provide students with practical knowledge and insights needed to successfully plan, implement, manage and analytically measure social media marketing efforts. This course gives students the educational opportunities to learn how to professionally create social media content and become stronger digital citizens. As a major component of this class, students will be creating weekly content for Pulaski High School and the Pulaski Red Sea Twitter accounts, Instagram accounts, TikTok and other social media feeds. In addition, students will be creating content for extracurricular clubs, teams, and events throughout the year. If time allows, students will also be connecting with Northeast Wisconsin businesses to develop social media marketing campaigns.</p>			

561B1A - COMPUTER APPLICATIONS 1			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
<p>Looking to have an "edge" in the classroom, at college, or at work? There is no better skill to have than computer literacy. Computer Applications 1 will show you the power of Microsoft Office. You will learn to use Word, Excel, and PowerPoint effectively and bring your computer skills to a new level. You will also have an opportunity to conduct research on the Internet, explore new technological innovations, examine technology-related careers and speculate about future computer applications.</p>			

562B1A - COMPUTER APPLICATIONS 2 *			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Computer Applications 1 or Instructor Approval
<p>Take your computing skills to the next level. Computer Applications 2 will take you to the advanced level of Microsoft Office. When you are required to use Word, Excel, or PowerPoint at college or work, you will be prepared for the most challenging projects and be able to complete them with ease. This is a transcribed course with NWTC so you will be completing college-level work. You may also elect to earn three NWTC credits which meets the computer literacy requirement at some colleges.</p> <p><b>*This course is transcribed with NWTC's Micro: Word-Intro (10-103-121); Micro: Excel-Intro (10-103-131); and Micro: PowerPoint-Intro (10-103-151) when taken as a <u>freshman, sophomore, junior or senior</u>.</b></p>			

563B1B - ENTREPRENEURSHIP			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
<p>Owning and operating your own business has long been an American dream. This course is designed for students who are interested in learning how a business is created, how it is managed, and how it fits into today's economy. Topics will include product development, business management, communications, sales, marketing, record keeping, legal aspects, and much more. Students will use technology and other hands-on activities to simulate business in the real world. Students actively participate in operating, marketing, buying, and designing for the Raider Zone, the school store.</p>			

564B1C - COLLEGE 101 *			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: None
<p>Specifically intended for students planning on attending NWTC. Students will utilize digital tools and resources to assess, explore, practice, apply, and evaluate both employability and learning skills. By establishing NWTC cultural values as hallmarks of success in academic, career, and personal settings the course encourages reflective, personalized development of a growth mindset and emphasizes the importance of making wise choices.</p> <p><b>*This course will run dependent on instructor availability and funding from NWTC.</b></p>			

COPBCX - CO-OP CLASS			
Year Course	Grade 12	.5 Credit	Prerequisite: Two courses in this department
<p>This senior-level course is designed for students interested in a school-day work experience their senior year. Topics covered include career opportunities, career decision-making process, human relations in the workplace (teamwork, leadership, ethics, sexual harassment, attitude), communications (listening, speaking, writing), legal aspects of employment (payroll, unions), and job-seeking skills.</p> <p>This is a required course for participation in the co-op work experience.</p>			

COPBWX - BUSINESS OCCUPATIONS COOPERATIVE JOB			
Year Course	Grade 12	1 Credit	Prerequisite: See Below
<p><b>Prerequisite: Computer Applications 1 and simultaneous enrollment in COPBCX.</b></p> <p>Students are able to apply classroom skills by participating in a work-release program.</p> <p>Students enrolled in course COPBWX must obtain a job in a business-related career area:</p> <p><u>Administrative:</u> Clerk Typist, Receptionist, Word Processor</p> <p><u>Marketing:</u> Cashier, Customer Service, Stockperson, Advertising, Display Person, Real Estate, Advertising, Media</p> <p><u>Management Information Systems:</u> Data Entry, File Clerk, Computer Programmer, Systems Technician</p> <p><u>Accounting/Financial:</u> Bank Teller, Accounting Assistant, Insurance</p> <p>Note: Students can elect to take the classroom portion (COPBCX) without participating in the job site portion (COPBWX). Students <u>must</u> take the classroom portion if they elect to participate in the job site portion.</p>			

# COMPUTER SCIENCE

## OCCUPATIONS RELATED TO COMPUTER SCIENCE

Network Engineer

Electronic Engineer

Security Analyst

Software Engineer

Hardware Engineer

IT Specialist

Network Associate



Network Administrator

Web Designer

Computer Programmer

Project Manager

Network Architect

Software Applications Developer

Computer Systems Analyst

Computer Systems Engineer

Database Administrator

Business Intelligence Analyst

Web Developer

Cyber Security



1st Level (9-12)	2nd Level (10-12)	3rd Level
Game and App Design		
	Computer Science Principles - 1 cr. -----	*Engineering Design & Development-1 cr.
Advanced Robotics		
IT: Support: Hardware Intro	Cybersecurity and Networking 1-----	Cybersecurity and Networking 2
<b>Notes:</b>		
All courses are 1/2 credit unless otherwise noted.		
Arrows represent a prerequisite or recommendation.		
* These courses are for only juniors and seniors.		

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite
1 Year	1	Computer Science Principles [idx]	602B1X	-	X	X	X	PLTW
1 Year	1	Engineering Design & Development	610B1X	-	-	X	X	See Chart Above
1 Sem	.5	Game and App Design	648B1C	X	X	X	X	None
1 Sem	.5	Robotics	612B1B	X	X	X	X	
1 Sem	.5	Cybersecurity and Networking 1	650B1A	-	X	X	X	
1 Sem	.5	Cybersecurity and Networking 2	651B1B	-	X	X	X	Cybersecurity Networking 1
1 Sem	.5	IT: Support: Hardware Intro	656B1A	X	X	X	X	
1 Year	.5	Co-Op Class	COPBCX	-	-	-	X	See Course Description
1 Year	1	Applied Tech Co-Op Job	COPTWX	-	-	-	X	See Course Description

602B1X – COMPUTER SCIENCE PRINCIPLES (PLTW)* Grade Indexed (see pg 16)			
Year Course	Grades 10 – 12	1 Credit	Prerequisite: None
<p><i>Potential Careers: Computer Programmer, Software Engineer</i></p> <p>Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber-security, robotics, and simulation.</p> <p><b>*This course carries advanced standing with NWTC's Program: Logic (10-152-140) if the student earns a "B" or better when taken as a junior or senior.</b></p> <p>* Students meeting the proper requirements upon completion of this course may be eligible for transcribed credit through PLTW affiliated universities.</p>			

610B1X - ENGINEERING DESIGN AND DEVELOPMENT (PLTW)			
Year Course	Grade 11-12	1 Credit	Prerequisite: See Pathway Map
<p><i>Potential Careers: All Engineering Fields, Project Manager</i></p> <p>Engineering Design and Development (EDD) is the capstone Project Lead the Way course which allows students to use their skills and knowledge from previous PLTW courses to design a solution to a technical problem of their choosing. This course is an engineering research course in which students will work in teams to research, design, prototype and test a solution to an open-ended engineering problem. At the conclusion of the course, students will present and defend their solution to a panel of outside reviewers. Students will need to build a prototype of their design. Students will be allotted \$50 for their prototype, but anything above and beyond would need to be donated by businesses or purchased by the student.</p>			

648B1C - GAME AND APP DESIGN			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Video Game Designer, Computer Programmer, Software Developer</i> Students will develop games and apps to solve real world problems. Structured activities using multiple programming languages allow students to progress to open-ended projects and problems that require planning, documentation, communication, and other professional skills. Each unit will culminate with students designing an authentic game or app.			

612B1B - ROBOTICS			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Robotics Engineer, Electromechanical Technician, Software Developer</i> Students apply the principles of robotics and automation to solve real world problems. Fundamental concepts of robotics used in automated manufacturing are embedded throughout the course. NOTE: This class is open to both students who took Robotics in middle school and those who did not.			

650B1A - CYBERSECURITY AND NETWORKING 1			
Semester Course <b>(Fall Semester)</b>	Grades 10 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Network Technician, Network Specialist, Network Programmer</i> This class is designed to provide students with classroom and lab experiences in current and emerging network technology. Instruction includes, but is not limited to: cybersecurity, networking, network terminology and protocols, network standards, LANs, WANs, OSI model, cabling, cabling tools, routers, router programming, star topology, and IP addressing. Particular emphasis is given to the use of decision-making and problem solving techniques. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment in compliance with all local, state, and federal safety, building, and environmental codes and regulations.			

651B1B - CYBERSECURITY AND NETWORKING 2			
Semester Course <b>(Spring Semester)</b>	Grades 10-12	.5 Credit	Prerequisite: Cisco Networking 1
<i>Potential Careers: Network Specialist, Network Programmer, Network Engineer, Network Administrator</i> This is the second course in the networking series. This class is designed to provide students with classroom and lab experience in current and emerging networking technology. Instruction includes, but is not limited to: cybersecurity, networking, network terminology and protocols, network standards, LANs, WANs, OSI model, Ethernet, token ring, fiber distribution interface, TCP/IP addressing protocol, dynamic routing, routing, and the network administrator's role and function. Particular emphasis is given to the use of decision making and problem solving. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment in compliance with all local, state, and federal safety, building, and environmental codes and regulations.			
<b>*This course is transcribed with NWTC's IT: Network: Cisco 1 (10-150-163) when taken as a junior or senior.</b>			

656B1A – IT: SUPPORT: HARDWARE INTRODUCTION*			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Network Technician, Network Installer</i> This course provides an excellent introduction to the IT industry and interactive exposure to personal computers, hardware, and operating systems. Students participate in hands-on activities and lab-based learning to become familiar with various hardware and software components and discover best practices in maintenance and safety. In addition, the course covers laptops and portable devices, wireless connectivity, security, safety and environmental issues, communication skills, and customer support.			
<b>*This course carries advanced standing with NWTC's IT: Support: Hardware Introduction (10-154-150) if the student earns a "B" or better when taken as a junior or senior.</b>			

COPBCX - CO-OP CLASS			
Year Course	Grade 12	.5 Credit	Prerequisite: Two courses in this department
This senior-level course is designed for students interested in a school-day work experience their senior year. Topics covered include career opportunities, career decision-making process, human relations in the workplace (teamwork, leadership, ethics, sexual harassment, attitude), communications (listening, speaking, writing), legal aspects of employment (payroll, unions), and job-seeking skills.			

COPTWX - APPLIED TECHNOLOGY CO-OP JOB			
Year Course	Grade 12	1 Credit	Prerequisite: See Below
<p><b>Prerequisite: Simultaneous enrollment in COPBCX plus successful completion of an Engineering or Technology course in the area of interest or approval of the instructor and guidance department.</b></p> <p>Students are able to apply classroom skills by participating in a work-release program.  Students enrolled in course COPTWX must obtain a job in an Engineering or Technology related career area:</p> <p><u>Computer Science/ IT</u></p> <p><b>**Note:</b> Students can elect to take the classroom portion (COPBCX) without participating in the job site portion (COPTWX). Students must take the classroom portion if they elect to participate in the job site portion.</p> <p>Letter of recommendation is needed from a teacher in the department of work experience.</p>			

# ENGLISH

SOME AREAS RELATED TO INTEREST AND ABILITY IN ENGLISH

Reading

Technology and Media

Thinking Skills

Literature



Research

Listening

Speaking

Writing

## ENGLISH

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite	
1 Year	1	English 9**+	400B1X	X	#	#	#		
1 Year	1	Advanced English 9**	403B1X	X	#	#	#		
1 Year	1	English 10**+	405B1X	#	X	#	#	English 9	
1 Year	1	Advanced English 10**	408B1X	#	X	#	#	English 9	
1 Year	1	English 11**+	410B1X	#	#	X	#	English 9 & 10	
1 Year	1	Advanced English 11**	413B1X	#	#	X	#	English 9 & 10	
1 Sem	.5	Communicating-Writing	420B1C	#	#	X	X	English 9 & 10	
1 Sem	.5	Creative Writing**	422B1C	#	#	X	X	English 9 & 10	
1 Sem	.5	English Composition 1**	424B1A	#	#	X	X	English 9 & 10	
1 Sem	.5	Contemporary Literature	425B1C	#	#	X	X	Eng 9 & 10	Senior Reading Requirement
1 Sem	.5	The Novel**	426B1C	#	#	X	X	Eng 9 & 10	
1 Sem	.5	American Literature**	427B1C	#	#	X	X	Eng 9 & 10	
1 Sem	.5	British Literature**	428B1B	#	#	X	X	Eng 9 & 10	
1 Sem	.5	Study of Broadcast Journalism A	430B1A	X	X	X	X		
1 Sem	.5	Study of Broadcast Journalism B	430B1B	X	X	X	X		
1 Sem	.5	Analysis of Drama	433B1A	X	X	X	X		
1 Sem	.5	Oral/Interpersonal Communication	435B1C	–	–	X	X	English 9 & 10	
1 Sem	.5	Pulaski News Publ 1	440B1A	X	X	X	X	Passed Com Arts 8	
1 Sem	.5	Pulaski News Publ 2	441B1B	#	X	X	X	Pulaski News Publ 1	
1 Year	1	Pulaski News Publ 3	442B1X	#	#	X	X	Pulaski News Publ 2	
1 Sem	.5	Developmental Reading	450B1A	#	X	X	#	Reading Teacher Rec. & FastBridge scores	
1 Sem	.5	Academic Literacy A	455B1A	X	#	#	#	Reading Teacher Rec. & FastBridge scores	
1 Sem	.5	Academic Literacy B	456B1B	X	#	#	#	Reading Teacher Rec. & FastBridge scores	
1 Year	1-H.S. 8-College	PHS / St Norbert College English Course [idx]	490B1X	–	–	–	X	See Course Description	

+ Required Course

\*\* College Prep Course

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and English Departments. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels

X Department recommendation for enrollment

[idx] Course is Grade Indexed

## How to Select English Courses:

The courses in the English department are divided into different levels. To effectively select your English courses, follow the recommendation of your English teacher who will suggest levels best for you. The suggestions are based upon your abilities and needs in specific areas. When selecting courses, also consider your past successes or failures in both required and elective English courses. Your post-high school plans and parental and counseling department recommendations are also important considerations.

400B1X - ENGLISH 9			
Year Course	Grade 9 (#)	1 Credit	Prerequisite: None
<p>Freshmen are required to take English 9 or Advanced English 9.</p> <p>This course integrates reading, writing, listening and speaking skills within each unit while still stressing the main unit topic(s). Each unit will be multifaceted with an emphasis on moving toward higher-level learning. Students will study communication, the writing process, paragraph and composition structures, and various types of literature. Students will also work with language usage and vocabulary in each unit.</p>			
403B1X - ADVANCED ENGLISH 9			
Year Course	Grade 9 (#)	1 Credit	Prerequisite: None
<p>Freshmen are required to take English 9 or Advanced English 9.</p> <p>This course integrates reading, writing, listening, and speaking skills much like the English 9 course; however, the material emphasizes higher level thinking skills and a faster pace. Each unit will be multifaceted with an emphasis on writing. Students who want to challenge themselves and/or who are considering College Credit English are encouraged to enroll. Placement in this class is based on standardized tests, class grades, and teacher recommendations.</p>			
405B1X - ENGLISH 10			
Year Course	Grade 10 (#)	1 Credit	Prerequisite: English 9
<p>Sophomores are required to take English 10 or Advanced English 10.</p> <p>This course integrates reading, writing, listening, and speaking skills and is designed to explore themes in literature. Writing focuses upon journals, essays, and responses to literature. Emphasis is also placed on the development of grammar, usage, composition, speech, analytical reading, study skills, and vocabulary.</p>			
408B1X - ADVANCED ENGLISH 10			
Year Course	Grade 10 (#)	1 Credit	Prerequisite: English 9
<p>Sophomores are required to take English 10 or Advanced English 10.</p> <p>This course integrates reading, writing, listening, and speaking skills much like the English 10 course; however, the material emphasizes higher level thinking skills and a faster pace. Each unit emphasizes analytical writing skills. This course is a prerequisite for College Credit English.</p>			
410B1X - ENGLISH 11			
Year Course	Grade 11 (#)	1 Credit	Prerequisite: English 9 & 10
<p>Juniors are required to take English 11 or Advanced English 11.</p> <p>This course integrates reading, writing, listening, and speaking skills and is designed to explore themes in both fiction and non-fiction literature. Writing focuses upon journals, essays, and responses to American and British works. Emphasis is also placed on the development of grammar, usage, composition, speech, analytical reading, study skills, and vocabulary. Various classroom technologies will allow for innovative, collaborative, creative, and critical thinking.</p>			
413B1X - ADVANCED ENGLISH 11			
Year Course	Grade 11 (#)	1 Credit	Prerequisite: English 9 & 10
<p>Juniors are required to take English 11 or Advanced English 11.</p> <p>This course integrates reading, writing, listening, and speaking skills and is designed to explore themes in both fiction and non-fiction literature. Writing focuses upon journals, essays, and responses to American and British works. Emphasis is also placed on the development of grammar, usage, composition, speech, analytical reading, study skills, and vocabulary. Various classroom technologies will allow for innovative, collaborative, creative, and critical thinking. Students who were successful in Advanced English 10 should enroll in Advanced English 11. This course is a prerequisite for College Credit English.</p>			

420B1C – COMMUNICATING-WRITING			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>This writing course is designed to strengthen composition skills for the technical world in which we live. The writing process will be studied as students develop memos, business letters, technical documents, and reports. Students work on cover letters, resumes, portfolios and interview skills. Correct grammar usage and mechanics will be reinforced through the student's writing. Recommended for students bound for technical school and/or the world of work.</p> <p><b>*This course carries advanced standing for NWTC's Communicating - Writing (31-801-385) if the student earns a "B" or better when taken as a junior or senior.</b></p>			

422B1C - CREATIVE WRITING			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>Creative Writing is for students wishing to write effectively and creatively. The course will stress creativity and standard usage in equal measures. Students and teachers will work together on an individual basis to develop writing talent. Description, short story, essay, humor, drama, fiction, and poetry will offer students possible forms in which to display their talents. This class is for those who truly enjoy writing and would like to share their ideas with others. This is a college-bound course.</p> <p><b>Students will be able to receive 3 transcribed English credits at UWGB following successful completion of a portfolio review by UWGB faculty. A fee of \$100 is required to exercise this option. Note that credits will only transfer to UWGB.</b></p>			

424B1A - ENGLISH COMPOSITION 1* (NWTC)			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>This semester class focuses on advanced writing skills and how to set forth ideas in a formal pattern. Learners develop knowledge and skills in planning, organizing, writing, and editing. Students will also analyze audience and purpose, use elements of research, format documents using standard guidelines, and develop critical thinking skills. By taking this course, students have the opportunity to begin fulfilling requirements and building a transcript toward a program of study at Northeast Wisconsin Technical College (NWTC).</p> <p>Students must have successfully completed and earned a minimum of 2 English credits to enroll in English Composition.</p> <p><b>* This course is transcribed with NWTC's English Composition 1 (10-801-136) when taken as a senior or junior.</b></p>			

425B1C – CONTEMPORARY LITERATURE			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>This course will engage students in a thematic study of contemporary literature written over the last several decades. Students will critically examine how literature reflects different perspectives of society and become acquainted with reading possibilities for the future. This course is designed primarily for non-college bound students.</p>			

426B1C – THE NOVEL			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>The Novel is intended for college-bound readers who want to increase their understanding and appreciation of literature. A wide variety of novels will be discussed and explored through reflective, analytical, and creative writing. In addition to writing, discussion and communication skills will be emphasized. The novels range from young adult literature to college level classics. Additionally, this class is one of the options for the GEAC certificate.</p>			

427B1C - AMERICAN LITERATURE			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>This course consists of study in four major literary areas: fiction, non-fiction, drama, and poetry. The course surveys literature from colonial times to the present. The class is recommended for students who possess a high interest in the quality literature of their country. College-bound students will find American Literature especially helpful, but this course is recommended for all students with an interest in America's literary development.</p>			

428B1B - BRITISH LITERATURE			
Semester Course	Grades 11-12 (#)	.5 Credit	Prerequisite: English 9 & 10
<p>This college prep class surveys British Literature from the earliest known English writing to the present; it is based on a historical format and emphasizes the works of classical authors such as Chaucer, Shakespeare, Milton, Wordsworth, Swift, Tennyson, Keats, etc.</p>			

Emphasis will also be placed on writing analytical essays. The course will provide background for further study in literature. This class is recommended for college-bound students and is one of the options for the GEAC certificate.

#### **430B1A - STUDY OF BROADCAST JOURNALISM A & 430B1B - STUDY OF BROADCAST JOURNALISM B**

Semester Course (430B1A Fall)	Grades 9-12	.5 Credit	Prerequisite: None
Semester Course (430B1B Spring)			

Study of Broadcast Journalism is designed to help students improve their understanding of the function, processes, and issues surrounding broadcast media. By taking on the role of broadcast journalists and media producers, students will gain a deeper appreciation for and become critical consumers of digital media. To that end, students will learn a variety of video production skills ranging from writing and on-air performance to technical elements behind the scenes. They will apply this knowledge while producing a weekly live broadcast. In addition, students will create other video productions targeting various audiences and their needs (informational, promotional, persuasive, etc.).

#### **433B1A - ANALYSIS OF DRAMA**

Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
-----------------	-------------	-----------	--------------------

Students will study drama as a literary genre. Classical drama will be read, analyzed, and critiqued. The class will emphasize written analysis of a variety of playwrights and their works. Along with this study, techniques of dramaturgy will be analyzed. A major focus for the course will be the student's understanding, interpretation and analysis of the many facets of drama.

#### **435B1C – ORAL & INTERPERSONAL COMMUNICATION \***

Semester Course	Grades 11-12	.5 Credit	Prerequisite: English 9 & 10
-----------------	--------------	-----------	------------------------------

Oral & Interpersonal Communication examines the communication process, perception and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication. As part of the course requirements, students will prepare and deliver a variety of speeches, including a formal, end of semester oral presentation. By taking this course, students have the opportunity to begin fulfilling requirements and building a transcript toward a program of study at Northeast Wisconsin Technical College (NUTC).

Students must have successfully completed and earned a minimum of 2 English credits to enroll in Oral & Interpersonal Communication.

**\* This course is transcribed with NUTC's Oral & Interpersonal Communication (10-801-196) when taken as a junior or senior.**

#### **440B1A – PULASKI NEWS PUBLICATION 1**

Semester Course	Grades 9-12	.5 Credit	Prerequisite: Passed Com Arts 8
-----------------	-------------	-----------	---------------------------------

Composition for Publication Beginning is a writing course. Students will learn the various forms of published written work. Student work will be published in the Pulaski News. Writing style will be stressed along with grammar, usage, sentence structure, spelling and other language mechanics. Students will also learn the rights and associated responsibilities of the free press.

#### **441B1B – PULASKI NEWS PUBLICATION 2**

Semester Course	Grades 10-12 (#)	.5 Credit	Prerequisite: Pulaski News Publication 1
-----------------	------------------	-----------	------------------------------------------

Composition for Publication Advanced is composed of students who have completed Composition for Publication Beginning and would like to further develop their composition skills. Student work will be published in the Pulaski News. Students learn publication planning and analysis. The responsibilities of a free press are again stressed.

#### **442B1X – PULASKI NEWS PUBLICATION 3**

Year Course	Grades 11-12 (#)	1 Credit	Prerequisites: Pulaski News Publication 2
-------------	------------------	----------	-------------------------------------------

This course further advances the students' writing skills. The students initiate article assignments, write articles, and produce the Pulaski News. Students use skills learned in the introductory courses to write a community paper, the Pulaski News. Pulaski High School is the only school in the U.S. to fully staff and write a community newspaper.

#### **450B1A – DEVELOPMENTAL READING**

Semester Course	Grades 10-11 (#)	.5 Credit	Prerequisite: Reading teacher recommendation and MAP scores.
-----------------	------------------	-----------	--------------------------------------------------------------

Developmental reading is a reading skills course available to sophomores and juniors who are below grade level in reading competencies. Emphasis in this course will be on vocabulary development, reading comprehension, reading rate, word attack, and reading for pleasure. This course will provide reading remediation and correction. Admission to the course will be based on spring MAP scores (9<sup>th</sup>- 218 or below/ 10<sup>th</sup>-221 or below) and teacher recommendation.



455B1A – ACADEMIC LITERACY A & 456B1B – ACADEMIC LITERACY B			
Semester Course (455B1A Fall) Semester Course (456B1B Spring)	Grade 9 (#)	.5 Credit	Prerequisite: Reading Teacher and MAP scores
Freshmen's reading focuses on improving reading skills. Students work on improving word attack skills, reading rate, vocabulary, and reading comprehension. Reading for pleasure is also emphasized. Students also work on improving reading skills across the curriculum, particularly in the areas of social studies, science, math and literature. This course will provide reading remediation and correction. Admission to the course will be based on spring eighth grade maps reading scores (8 <sup>th</sup> -215 or below) and teacher recommendations. *It would be most beneficial if students took both semesters consecutively, but students will be allowed to take one semester for ½ credit if that is the only option available when scheduling.			

490B1X - PHS / ST. NORBERT COLLEGE ENGLISH COURSE			Grade Indexed (see pg 16)
Year Course	Grade 12	1 Credit	Prerequisite: See below
Pulaski High School and St. Norbert College have a partnership that allows Pulaski students to receive college credits without leaving the PHS campus. St. Norbert College will grant four credits per course, which are accepted at nearly every college and university in the world. These two courses have college level standards. The courses are demanding, but the rewards are great for those willing to make the commitment.			
Students must pass both courses in order to receive any college credits. The first semester course is COLLEGE COMPOSITION (SNC EN101) and second semester is COLLEGE INTRODUCTION TO LITERATURE (SNC EN150). Students must register for both courses.			
<b>COLLEGE COMPOSITION (SNC EN101)</b> <b>COLLEGE INTRODUCTION TO LITERATURE (SNC EN150)</b> <b>(Seniors only) Students receive ½ high school credit and 4 college credits per course per semester.</b>			
<b>Prerequisites:</b> <ol style="list-style-type: none"> <li>1. Seniors with a minimum 3.0 overall grade point average with very strong English grades</li> <li>2. A 21 on the English ACT test.</li> <li>3. St. Norbert College fee - \$380 for the entire 8 credits. Books will be provided.</li> <li>4. Successful completion of both semesters of Advanced English 10.</li> <li>5. Students wishing to enroll in this course must have at least a B+ in Advanced English 11.</li> <li>6. Teacher recommendation.</li> </ol>			
These courses develop composition skills through an in-depth study of literature and a systematic series of rhetorical exercises. In addition, this course develops student skills in the reading and analysis of drama, poetry, and fiction. Besides continued practice in analytical writing, the student will do an extended research paper. Both semesters of work are directed not only by the teacher of the class but also by in-class visits from a St. Norbert College Coordinator. Students also enjoy the privilege of using the Mulva Library on the St. Norbert College Campus. Students will be receiving two semester grades from St. Norbert College as well as two semester grades from Pulaski High School.			

# FAMILY and CONSUMER SCIENCE

SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN FAMILY and CONSUMER SCIENCE

Registered Nurse	Food Scientist	Executive Chef	Educator
Psychiatric Social Worker	Social Worker	Restaurant Owner/Manager	Interior Designer
Paramedic	School Counselor	Food Packaging Designer	
Sous Chef	Certified Nursing Assistant	Pastry Chef	
Child Care Director	Technical Education Instructor		
Food Promotion Specialist	Merchandiser	Food Systems Manager	Caterer
			
Hotel Manager	Event Planner	Pathologist	Dietary Technician
Pharmacist	Grief Counselor	Tourism Manager	Fashion Buyers
Special Education Teacher	Occupational Therapist	Home Services Director	
	Extension Service Agent	Apparel Product Management	
Food and Beverage Manager	Dietary Consultant	Home Day Care Provider	
	Physical Therapist	Marriage and Family Counselor	
Hotel Manager	Health and Wellness Coordinator	Vocational Teacher	
Retail Buyer	Dental Hygienist	Dietitian	
	Human Resource Manager	Food Stylist	
Tailor	Cook	Tourism Manager	Food Sales

## **FAMILY and CONSUMER SCIENCE**

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Sem	.5	Personal Growth & Financial Living	500B1C	–	–	X	X	
1 Sem	.5	Foods for Life	502B1C	X	X	X	X	
1 Sem	.5	Baking & Pastry Arts	504B1B	X	X	X	X	Foods for Life
1 Sem	.5	Tastes of Culture	506B1A	X	X	X	X	Foods for Life
1 Year	1	Culinary Arts 1	508B1X	–	X	X	X	Foods for Life
1 Year	1	Culinary Arts 2	509B1X	–	X	X	X	Current or Completed Enrollment in Culinary Arts 1
1 Sem	.5	Sanitation for Foodservice Operations & Nutrition for Culinary Arts	510B1A	–	–	X	X	Foods for Life
1 Sem	.5	Food Science-ES	511B1C	–	X	X	X	
1 Sem	.5	Housing & Interior Design	516B1A	X	X	X	X	
1 Sem	.5	Fashion Design and Construction	517B1A	X	X	X	X	
1 Sem	.5	Family Futures	519B1A	X	X	X	X	
1 Sem	.5	Child Adolescent Development	521B1C	–	–	X	X	
1 Sem	.5	Introduction to Educational Practices	523B1A	–	–	X	X	
1 Sem	.5	Health, Safety, and Nutrition for Early Childhood Education	540B1B	–	–	X	X	
1 Sem	.5	Health Occupations 1	524B1A	X	X	X	X	
1 Sem	.5	Health Occupations 2	525B1B	X	X	X	X	Health Occupations 1
1 Sem	.5	Medical Terminology	526B1B	–	#	X	X	
1 Sem	.5	Contemporary Healthcare Practices/Digital Literacy Healthcare	528B1B	–	–	X	X	
1 Sem	1	Nursing Assistant Program	532B1C	–	–	X	X	See course description
n/a	n/a	Early College Practical Nursing Program	534B1A	–	–	X	X	See program description
1 Year	.5	Co-op Class	COPBCX	–	–	–	X	See course description
1 Year	1	FACE Co-Op Job	COPFWX	–	–	–	X	See course description

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Family and Consumer Science Departments. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels

ES Denotes “Equivalent Science”—The Wisconsin Department of Instruction and the UW System has designated these courses as science equivalent courses. Most UW System campuses will count the completion of one or more approved science equivalent courses as the third unit of science as long as the student has taken some combination of biology/chemistry/physics for the other two units.

500B1C – PERSONAL GROWTH & FINANCIAL LIVING			
Semester Course	Grades 11–12	.5 Credit	Prerequisite: None
This course is designed to strengthen the connections between the student and life following graduation. Students will explore topics related to well-being and the role of personal responsibility including managing time, and stress; as well as utilizing personal finance strategies to make informed decisions about managing money, using credit cards, making major purchases, and investments. In general, the course content increases awareness of the relationship between our lifestyle choices and how they relate to an improved sense of meaning, purpose and well-being. This course fulfills the Personal Financial Management graduation credit requirement.			
502B1C – FOODS FOR LIFE			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Welcome to the world of cooking! This course develops students' culinary skills to prepare made-from-scratch foods and is the prerequisite for all other PHS culinary-focused courses. The first half of the course is dedicated to safety and sanitation in the kitchen while cooking with grains, fruits, vegetables, protein, and dairy products. The second half of the class connects the culinary concepts/techniques with nutrition/meal management in preparing wholesome, nutrient-rich recipes. <b>Weekly food labs</b> , often with student teams choosing their own recipes, will be an integral component of this course.			
504B1B – BAKING & PASTRY ARTS			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Foods for Life
Baking & Pastry Arts students will take on the world as pastry chefs. Baking principles and procedures will be examined and applied through <b>hands-on practice and weekly food labs</b> of a variety of recipes, including quick breads, yeast breads, pastries, cakes and cake decorating, cookies, and plated desserts. Students may also explore gluten-free baking recipe planning and preparation, as well as altering and preparing recipes to address other allergies and/or dietary restrictions.			
506B1A – TASTES OF CULTURE			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Foods for Life
Tastes of Culture course explores the connection between what we eat and food cultures throughout the world. Culinary, geographical, and cultural traditions will be explored starting in North America (focusing on Indigenous cuisine) and then continuing around the globe. Units of cuisine exploration may include Central America, South America, England, Scandinavia, Italy, Greece, Germany, Poland, Russia, India, Japan, China, Southeast Asia, and Africa. <b>Hands-on practice of culinary techniques through weekly food labs will be an integral part of the course.</b>			
508B1X - CULINARY ARTS 1 *			
Year Course	Grades 10–12	1 Credit	Prerequisite: Foods for Life
Following enrollment in Foods for Life, Culinary Arts 1 students will develop employability skills and techniques needed for success in the restaurant and foodservice industries. Units include career opportunities, professional expectations, food safety/cleanliness, foodservice equipment/knives/smallwares, culinary math, salads/dressings/dips, sandwiches/pizza, stocks/sauces/soups, cooking/baking methods, management strategies, as well as other culinary opportunities such as school/community catering, ProStart competition (see below), and Gingerbread Creations. <b>Weekly food labs</b> will be an integral part of the course and will also include catering school/community events. <b>** Concurrent enrollment in Culinary Arts 1 and Culinary Arts 2 is allowed.</b>			
<b>ProStart Program Overview:</b> The National Restaurant Association Educational Foundation's (NRAEF) prepares students for the restaurant and foodservice industry through classroom experiences, opportunities for mentored work experiences, and/or participation in state and national competitions (optional). Culinary and Management competition will team students with professional chef mentors in developing menus and restaurant concepts for state competition resulting in numerous scholarship opportunities for local and national culinary post-secondary schools.			
* National Restaurant Association Year One certificates will be available to students who complete the course and pass the Level One Exam ( <i>Certificates are optional and is not mandatory to be a member of the class</i> )			
<b>** If students complete Culinary Arts 1 and 2 and earn the ProStart certificate, students may earn up to 6 credits at FVTC, 4 credits at NWTC, 10 credits at the University of Wisconsin-Stout, as well as earn opportunities to opt out of certain courses at various culinary schools across the country. See additional details below under the Culinary Arts 2 description.</b>			
<b>*This course carries advanced standing with NWTC's Hospitality Finance (10-109-126) if the student earns a "B" or better when taken as a junior or senior.</b>			

509B1X - CULINARY ARTS 2 *			
Year Course	Grades 10–12	1 Credit	Prerequisite: Foods for Life AND completed OR concurrent enrollment Culinary Arts 1
<p>Following or concurrently with Culinary Arts 1, students will continue the ProStart program in developing career-readying skills and techniques needed for success in the restaurant and foodservice industries. Units include marketing, menu management, eggs/dairy products, breakfast cookery, fruits/vegetables, potatoes/grains/pasta, cost control, sustainability, nutritional/healthful menu practices, meat/poultry/seafood, baked goods, plating/garnishing, as well as other culinary opportunities such as school/community catering, and ProStart competitions (see below). <b>Weekly food labs</b> will be an integral part of the course and will also include catering school/community events. <b>** Concurrent enrollment in Culinary Arts 1 and Culinary Arts 2 is allowed</b></p> <p><b>ProStart Program Overview:</b> See detailed description under Culinary Arts 1</p> <p>* National Restaurant Association Year Two certificates will be available to students who complete the course, <b>pass the Level Two Exam</b>, and document <b>400 hours of work experience in the foodservice industry during their enrollment in Culinary Arts 1 and 2</b> (<i>Certificates are optional; work experience is not mandatory to be a member of the class</i>).</p> <p>** If students complete Culinary Arts 1 and 2 and earn the ProStart certificate, students may earn up to <b>6 credits at FVTC, 4 credits at NWTC, 10 credits at the University of Wisconsin-Stout</b>, as well as earn opportunities to opt out of certain courses at various culinary schools across the country.</p> <p><b>*This course carries advanced standing with NWTC's Hospitality Facilities Management (10-109-127) if the student earns a "B" or better when taken as a junior or senior.</b></p>			

510B1A – SANITATION FOR FOODSERVICE & NUTRITION FOR CULINARY ARTS *			
Semester Course	Grades 11–12	.5 Credit	Prerequisite: Foods for Life
<p>As chefs and foodservice managers, professionals in this industry will be presented with challenges regarding food safety, sanitation, and creating menus that require nutritional analyses. <b>Sanitation for Food Service Operations</b> focuses on the development of skills to follow sanitation and hygiene provisions in state codes, including the opportunity for students to earn their ServSafe Manager certification, valued in foodservice operations. <b>Nutrition for Culinary Arts</b> focuses on the six major nutrients and how each is used by the body. The planning of well-balanced diets and the nutritional analysis of diets are emphasized.</p> <p><b>*This course is transcribed with FVTC's Sanitation for Food Service Operations (10-316-118) and Nutrition for Culinary Arts (10-316-119) when taken as a junior or senior.</b></p> <p><b>** FVTC Sanitation for Food Service Operations</b> credit will only be provided upon <b>passing</b> the <b>ServSafe Manager certification exam</b> (70% or higher). <b>Students must pay for each exam taken (\$36 per online exam, minimum 1).</b></p> <p><b>*** FVTC credits are also transferable to NWTC's Nutrition (0-316-128) and Principles of Sanitation (10-316-118) courses when taken as a junior or senior.</b></p>			

511B1C - FOOD SCIENCE-ES			
Semester Course	Grades 10-12	.5 Credit	Prerequisite: None
<p>Students will examine science concepts through the study of food, product development/evaluation, and nutrition. <b>Labs are used as an integral component of the course</b> to demonstrate the physical/chemical makeup of food as it relates to a multitude of culinary applications, sensory evaluation (taste-testing), promoting health through nutritional analysis, and use of these concepts within the food industry as a whole.</p>			

516B1A - HOUSING AND INTERIOR DESIGN			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
<p>This project-oriented course is designed to teach a variety of topics related to homes and their interiors. The course will discuss the need for housing, along with the impact of design, furniture, floor plans, and much more! Activities will focus on the selection and planning of designed spaces to meet needs, wants, values and lifestyles in order to create safe, functional and aesthetically pleasing spaces. Possible course topics include housing types, architectural design, interior design, furniture styles and arrangement, and the application of the elements and principles of design. The topics covered in this class can be used for personal enhancement of present and future living environments, but will also apply to students who have an interest in pursuing a career in this area.</p>			

517B1A - FASHION DESIGN AND CONSTRUCTION			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
This class applies lifelong skills that will teach the students how to sew for themselves, others, and the home. Students will investigate such topics as fashion terminology, designers, impacts of color, basics of a sewing machine, and how to create a garment with and without a pattern. The students may choose to pay for their own materials for their final projects, but will not be required.			
519B1A - FAMILY FUTURES			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
In Family Futures, students focus on the well-being of the family, learning concepts and skills useful for careers in human services, such as social-work and counseling. A variety of family/human needs topics will be addressed such as family dynamics, crisis management, and how to empower families with use of available resources/services, especially for families in need. Project-based learning opportunities are offered to strengthen families and help improve our own community.			
521B1C - CHILD ADOLESCENT DEVELOPMENT *			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: None
This course focuses on the importance of the roles parents perform to guide the development of children from the state of conception to the age of eighteen. Some topics include: preparation for pregnancy and prenatal development; physical, intellectual, social, emotional and moral development of children; and characteristics of children with special needs.			
<p><b>*This course is transcribed with NWTC's Child &amp; Adolescent Development (10-522-106) when taken as a junior or senior.</b></p> <p><b>**Upon completion of this course as well as Introduction to Educational Practices (10-522-103), one additional course can be taken at NWTC to obtain the Introduction to Education Certificate.</b></p>			
523B1A - INTRODUCTION TO EDUCATIONAL PRACTICES *			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: None
Students enrolled in this course will learn how to work with children of all age levels to prepare for a future career in education. Topics will include current trends/issues in education, multiple intelligences, brain-based research, and working with diverse populations. Students will create math games, science experiments, bulletin boards and other educational classroom materials. In addition, students may work directly with young children and/or peers to practice their teaching skills, which may include story times, adding music to your classroom, and utilizing basic guidance strategies for education.			
<p><b>*This course is transcribed with NWTC's Introduction to Educational Practices (10-522-103).</b></p> <p><b>**Upon completion of this course as well as Child &amp; Adolescent Development (10-522-106), one additional course can be taken at NWTC to obtain the Introduction to Education Certificate.</b></p>			
540B1B - HEALTH, SAFETY, AND NUTRITION FOR EARLY CHILDHOOD EDUCATION *			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: None
Students enrolled in this course will use anti-bias perspectives, government regulations, and professional standards to analyze the health, safety, and nutrition in early childhood programs. Students will be trained in Shaken Baby Syndrome (SBS) and Sudden Infant Death Syndrome (SIDS), as well as learning about child abuse and neglect. In addition, students will work on nutritionally sound menu development to be utilized in early childhood programs.			
<p><b>*This course is transcribed with NWTC's Health, Safety, and Nutrition (10-307-167) when taken as a junior or senior.</b></p> <p><b>**Upon completion of this course as well as Child &amp; Adolescent Development (10-522-106), one additional course can be taken at NWTC to obtain the Early Childhood Education Certificate(s).</b></p>			
524B1A - HEALTH OCCUPATIONS 1			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
This course will allow students the opportunity to explore the many employment possibilities in the health occupations field, while also preparing for future courses in the medical area. Students attain knowledge and skills that will prepare them for entry level jobs in the health occupation areas, covering information such as legal responsibilities & ethics, infection control, medical terminology, health care systems, and safety. Current events in the health field will also be an integral part of this course.			

525B1B - HEALTH OCCUPATIONS 2			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: Health Occupations 1
After taking Health Occupations 1, students in Health Occupations 2 have the opportunity to have a more in-depth look at the employment possibilities in the health industry. Students will explore health career clusters in order to attain valuable information in making their career choice in the medical field. Students will take an in-depth look at the makeup of the body and all the body systems as well as have the opportunity to receive American Heart Association First Aid and CPR/AED training.			

526B1B - MEDICAL TERMINOLOGY *			
Semester Course	Grades 10-12	.5 Credit	Prerequisite: None
This course focuses on the component parts of medical terms necessary for those interested in health related careers. Students are introduced to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology. They will practice formation, analysis and reconstruction of terms using proper spelling, definitions and pronunciation.			
<b>*This course is transcribed with NWTC's Medical Terminology (10-501-101). Students must earn a C or better to receive credits at NWTC.</b>			
<b>**10th grade students interested in enrolling in this course MUST see Mrs. Lichon for final approval.</b>			
<b>***Upon completion of this course as well as Culture of Healthcare (10-501-104) and Digital Literacy Healthcare (10-501-107) you are eligible for the Healthcare Customer Service Representative Pathway Certificate.</b>			

528B1B – CONTEMPORARY HEALTHCARE PRACTICES/DIGITAL LITERACY HEALTHCARE*			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: None
Quarter 1: Contemporary Healthcare Practices- This course is designed as an introduction to customer service for learners interested in working in various healthcare settings. Students will investigate healthcare systems, safety standards, and the workforce, while examining professionalism, interpersonal and written communication skills, and confidentiality as they relate to customer service in healthcare.			
Quarter 2: Digital Literacy Healthcare- This course provides an introduction to basic computer functions and applications utilized in contemporary healthcare settings. Students are introduced to the hardware and software of components of modern computer systems and the application of computers in the workplace. The course emphasizes the uses in the healthcare field of common software packages, operating systems, file management, word processing, spreadsheet, database, internet, and electronic mail.			
<b>*This course is transcribed with NWTC's Contemporary Healthcare Practices (10-501-104) and Digital Literacy Healthcare (10-501-107). Students must earn a C or better to receive credits at NWTC.</b>			
<b>**Upon completion of this course as well as Medical Terminology (10-501-101) you are eligible for the Healthcare Customer Service Representative Pathway Certificate.</b>			

532B1C – NURSING ASSISTANT PROGRAM *			
Semester Course	Grades 11-12	1 Credit	Prerequisite: Must be at least 16 years old and must be accepted into the NWTC Nursing Assistant Program
This class certifies students for beginning employment in the health and nursing field as a Certified Nursing Assistant (CNA), a job in high demand. Technical Colleges as well as many other health programs require CNA certification as an entry requirement. The classroom phase includes specific nursing skills, safety in the healthcare setting, and communicating with the patient, family and co-workers.			
For certification, students are required to complete 32 hours, which may be outside of the school day, in a clinical experience and pass a state competency exam. Clinical experience typically begins approximately two months after the Nursing Assistant course begins. Requirements of the clinical experience include the following: COVID Vaccine (with potential for exemption), Flu Vaccine, 2 TB skin tests, a recommended Hepatitis B vaccination, completion of a background information disclosure form, and holding to a strict attendance policy. Students must also earn a B (80%) or better to participate in clinicals and be eligible for the state competency exam.			
The Pulaski Community School District is required to comply with the Wisconsin Caregiver Law (1997 WISCONSIN ACT 27). For clinical entrance, students must complete a background information disclosure form. The information provided on this form must be truthful and match any findings on the criminal record check. Students with a criminal history may be denied access to placement at the discretion of the clinical site. Students interested in participating in the clinical experience to receive state certification will need to be able to push, pull, lift, and/or support up to 50 pounds of weight.			
<b>Students must apply for the NA Program through the Start College Now Program. See page 13.</b>			

534B1A – EARLY COLLEGE NURSING TRACK (By selecting this course, you are interested in participating in this program.)			
See program details	Grade 11-12	See program details	Prerequisite: Two high school semesters of Chemistry completed with a “C” or better..
Admission Requirements: <ul style="list-style-type: none"> <li>Suggested: ACT/ASPIRE: Math 18, Reading 16, English 21</li> <li>GPA 3.0</li> <li>Application and interview process</li> </ul> This program is a start towards the Licensed Practical Nursing (LPN) Technical Diploma at NWTC. A graduate of this program will have the potential for employment in the following areas: <ul style="list-style-type: none"> <li>Licensed Practical Nurse: administers care to individuals whose conditions are relatively stable; administers care to the acutely ill under the direct supervision of an RN or MD; teaches basic hygiene, nutrition, and aspects of good health; administer first aid; and assists with health assessment and basic health teaching in a variety of settings under the supervision of an RN or MD.</li> <li>Health Insurance Claims Approver: processes insurance claims on a computer terminal.</li> </ul> <p><b>*This program is offered through NWTC, and many of the courses are taken through Start College Now or Youth Apprenticeship. **See Mrs. Lichon or our NWTC Career Coach with questions.</b></p>			

### EARLY COLLEGE NURSING TRACK COURSE LIST

COURSES MAY BE TAKEN IN ANY SEQUENCE	
Fall Semester	
Course	Credits
30-543-330 Nursing Assistant (May be taken summer prior to junior year through Youth Apprenticeship)	3 - Start College Now (offered at PHS) or Youth Apprenticeship
10-801-196 Oral/Interpersonal Comm	3 - Transcribed Credit
10-801-136 English Composition 1	3 - Transcribed Credit
10-890-101 College 101	1 - Start College Now (offered at PHS)/Youth Apprenticeship
10-806-177 General Anatomy and Physiology	4 - Transcribed Credit
10-806-188 Developmental Psych	3 - Start College Now/Youth Apprenticeship
IF INTERESTED IN THE ASSOCIATE DEGREE NURSING PROGRAM	
10-806-186 Intro to Biochemistry	4 - Start College Now/Youth Apprenticeship
Grade Requirements	
<ul style="list-style-type: none"> <li>No final grade lower than a ‘B’ is acceptable in General Anatomy and Physiology or Intro to Biochemistry</li> <li>A student must repeat the course with a ‘B’ or better to continue in or graduate from this program</li> <li>If you are unsuccessful in any courses supported by your School District through the Start College Now Program, you will be subject to the NWTC withdrawal policy and your District policy, which may require students to reimburse tuition. Any academic performance below a 2.0 may also impact future financial aid eligibility.</li> <li>If you are unsuccessful in 2 nursing core classes, this would result in dismissal from the ECPN program</li> <li>If interested in continuing to the Associate Degree Nursing (RN) Program, <u>Intro to Biochemistry</u> and <u>Advanced Anatomy and Physiology</u> is a requirement for admission. Completion of these two courses would allow students to bypass the waitlist for the LPN to ADN Program.</li> </ul>	

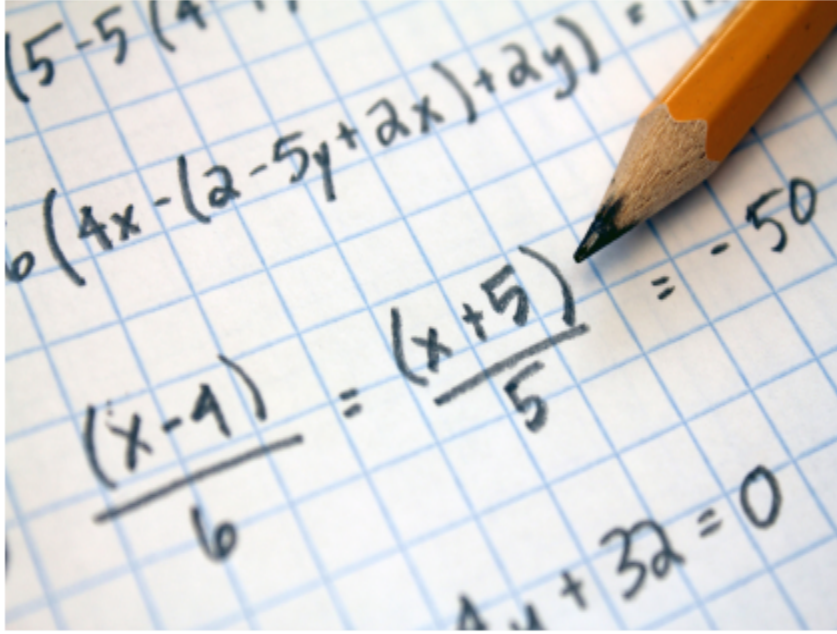


COPBCX - CO-OP CLASS			
Year Course	Grade 12	.5 Credit	Prerequisite: See below
<p>This senior-level course is designed for students interested in a school-day work experience their senior year. Topics covered include career opportunities, career decision-making process, human relations in the workplace (teamwork, leadership, ethics, sexual harassment, attitude), communications (listening, speaking, writing), legal aspects of employment (payroll, unions), and job-seeking skills.</p> <p>This is a required course for participation in the co-op work experience.</p>			

COPFWX - FAMILY AND CONSUMER SCIENCE COOPERATIVE WORK EXPERIENCE			
Year Course	Grade 12	1 Credit	Prerequisite: See Below
<p>Students are able to apply classroom skills by participating in a work-release program.</p> <p>Students enrolled in course COPFWX must obtain a job in a <i>FACS-related</i> career cluster:</p> <p><u>Education and Training</u>: Childcare facilities, Educational aide</p> <p><u>Health Science</u>: Certified Nurses Assistant (CNA), other Hospital or Nursing care programs/support services</p> <p><u>Hospitality and Tourism</u>: Foodservice, Lodging, Travel and Tourism, Recreation programs</p> <p><u>Human Services</u>: Childcare facilities, Consumer services, Personal care services, Community centers</p> <p><u>Arts, A/V Technology and Communication</u>: Clothing and/or Interior Design Retail, Design, Repair</p> <p>Note: Students can elect to take the classroom portion (COPBCX) without participating in the job site portion (COPFWX). Students must take the classroom portion if they elect to participate in the job site portion.</p>			

# MATHEMATICS

## SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN MATHEMATICS

All Engineers	Chemist	Architect	Economist
Forester	Dentist	Mathematics Teacher	
Actuarial Clerk Worker	Broadcasting Technician	Electrician	
Statistician/Business	Dental Technician	Broadcasting Technician	
Commercial Draftsperson	Development Technician Engineering	Navigator	
Airplane Pilot		Surveyor	
Optometrist		Physician	
Bookkeeper		Banker	
Insurance		Carpenter	
Aerospace		Plumber	
Secretary		Bank Cashier	
Business Education Teacher		Technician (Analyst & Engineering)	
Machinist	Electronic Technician	Actuary	Accountant
Systems Analyst		Mathematical Statistician	

## MATHEMATICS

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite
1 Year	1	Math 1A	200B1X	X	X	—	—	Placement by the Math Department
1 Year	1	Math 1	204B1X	X	X	—	—	Placement by the Math Department
1 Year	1	Math 1 Advanced	206B1X	X	—	—	—	Placement by the Math Department
1 Year	1	Math 2A	210B1X	—	X	X	—	Math 1 or Math 1A
1 Year	1	Math 2	214B1X	X	X	X	—	Math 1
1 Year	1	Math 2 Advanced	216B1X	X	X	X	—	Math 1 or Advanced Math 1
1 Year	1	Math 3A	220B1X	#	X	X	X	Math 2 or Math 2A
1 Year	1	Math 3	224B1X	#	X	X	X	Math 2
1 Year	1	Math 3 Advanced	226B1X	#	X	X	X	Math 2 or Math 2 Advanced
1 Sem	.5	Vocational Math A/B (Previously Math 1-Trades)	240B1A	—	—	—	X	Math 3 or Senior Status
1 Sem	.5	Mathematical Reasoning	246B1B	—	—	#	X	Math 3 or Senior Status
1 Sem	.5	Statistics	250B1B	#	X	X	X	Math 2 or Math 2 Advanced
1 Year	1	Advanced Placement Statistics [idx]	252B1X	#	X	X	X	Math 3 or Math 3 Advanced
1 Year	1	PHS-SNC Statistics	253B1X	—	X	X	X	Math 3 or Math 3 Advanced
1 Year	1	Math Analysis	255B1X	#	#	X	X	Math 3 or Math 3 Advanced
1 Year	1	Pre-Calculus	260B1X	#	#	X	X	Analysis or Math 3 Advanced
1 Year	1	PHS-SNC Calculus 1 [idx]	265B1X	—	—	X	X	Pre-Calculus and St. Norbert College Acceptance for SNC credit
1 Year	1	Advanced Placement Calculus 1 AB [idx]	266B1X	—	—	X	X	Pre-Calculus
1 Year	1	Calculus 1	267B1X	—	—	X	X	Pre-Calculus
1 Year	1	PHS-SNC Calculus 2 [idx]	275B1X	—	—	—	X	Calculus 1
1 Year	1	Advanced Placement Calculus 2 BC [idx]	276B1X	—	—	—	X	Calculus 1
1 Year	1	Calculus 2	277B1X	—	—	—	X	Calculus 1

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Math Departments. Please contact the PHS counseling department with questions.

[idx] This course is Grade Indexed

X Enrollment available to students in designated grade levels

X Department's recommended grade level for enrollment

<b>200B1X – MATH 1A</b>			
Year Course	Grades 9-10	1 Credit	Prerequisite: Placement by the high school Math Department
This course is designed as a first-year math course at the high school level for college-bound students. The students will gain a strong foundation in algebraic topics and skills. Students in this course find themselves engaged in various activities that have a strong problem solving emphasis. Regular daily assignments are required. A scientific calculator is required.			
<b>204B1X – MATH 1</b>			
Year Course	Grades 9-10	1 Credit	Prerequisite: Placement by the high school Math Department
The aim of the course is to introduce, clarify, unify, broaden and integrate the fundamental concepts of Algebra, while integrating topics from Statistics and Probability. Topics meeting the Common Core State Standards are explored while actively engaging students in a variety of best practices of mathematics instruction. Regular daily assignments are required. A scientific calculator is required.			
<b>206B1X – MATH 1 ADVANCED</b>			
Year Course	Grade 9	1 Credit	Prerequisite: Placement by the high school Math Department
The aim of the course is to introduce, clarify, unify, broaden and integrate the fundamental concepts of Algebra, Geometry, Trigonometry, Statistics and Probability with a strong emphasis on college preparatory Algebra. This class is oriented toward the student interested in pursuing a career in the science, technology, engineering or mathematics field. The Common Core State Standards are explored while actively engaging students in an effort to help them obtain a thorough understanding of mathematics. Regular daily assignments are required. A scientific calculator is required.			
<b>210B1X – MATH 2A</b>			
Year Course	Grades 10-11	1 Credit	Prerequisite: Math 1 or Math 1A
This course is designed to follow Math 1A or Math 1. This is the second course in a sequence of college preparatory courses. Emphasis will be given to geometry, statistics and probability, as well as a continued study of algebra topics. Students will be engaged in various activities meant to develop problem solving skills. Regular daily assignments are required. A scientific calculator is required.			
<b>214B1X – MATH 2</b>			
Year Course	Grades 9-11	1 Credit	Prerequisite: Math 1
The aim of the course is to introduce, clarify, unify, broaden and integrate the fundamental concepts of Algebra, Geometry, Trigonometry, Statistics and Probability with a strong emphasis on college preparatory Geometry. Topics meeting the Common Core State Standards are explored while actively engaging students in a variety of best practices of mathematics instruction. Regular daily assignments are required. A scientific calculator is required.			
<b>216B1X– MATH 2 ADVANCED</b>			
Year Course	Grades 9-11	1 Credit	Prerequisite: Math 1
The aim of the course is to introduce, clarify, unify, broaden and integrate the fundamental concepts of Algebra, Geometry, Trigonometry, Statistics and Probability with a strong emphasis on college preparatory Geometry. This class is oriented toward the student interested in pursuing a career in the science, technology, engineering or mathematics field. The Common Core State Standards are explored while actively engaging students in an effort to help them obtain a thorough understanding of mathematics. Regular daily assignments are required. A scientific calculator is required.			
<b>220B1X – MATH 3A</b>			
Year Course	Grade 10-12	1 Credit	Prerequisite: Math 2 or 2A
This course is designed to follow Math 2 or 2A. This is the third course in a sequence of college preparatory classes. Emphasis will be given to any geometry and probability topics not covered in Math 2A as well as to beginning concepts specific to a second year algebra course. Students will be engaged in various activities meant to develop problem solving skills. Regular daily assignments are required. A scientific calculator is required.			
<b>224B1X – MATH 3</b>			
Year Course	Grade 10-12	1 Credit	Prerequisite: Math 2
This course is designed to expand on the topics covered in Math 1 and Math 2. It reviews and clarifies many of the topics discussed in previous years, but has an emphasis on second year algebra content. It will cover any remaining concepts relating to Algebra, Geometry, Trigonometry, Statistics and Probability. Regular daily assignments are required. A scientific calculator is required.			

226B1X – MATH 3 ADVANCED			
Year Course	Grade 10-12	1 Credit	Prerequisite: Math 2 Advanced
The aim of this course is to introduce, clarify, unify, broaden, and integrate the fundamental concepts of algebra, geometry, trigonometry, statistics and probability with a strong emphasis on algebra 2 and trigonometry. Topics are explored while actively engaging students in a variety of best practices of mathematical instruction. The pace of instruction will be aimed towards college bound students interested in pursuing a field of study requiring a demanding and rigorous background in mathematics. Regular daily assignments are required. A scientific calculator is required.			

240B1A - VOCATIONAL MATH A/B * (Previously Math 1 - Trades)			
Semester Course	Grades 12	.5 Credit	Prerequisite: Math 3 or Senior Status
Students who successfully complete this course as a senior will receive technical college credit and this credit may transfer to other tech schools and colleges. Topics covered include mathematical applications of fractions, decimals, ratios, proportions and percent, linear, area and volume measurements, plane geometry and solid figures. Practical applications of mathematics are the primary focus of this course. *This course is transcribed with NWTC's Vocational Math A course (10-804-301) & Vocational Math B course (10-804-302) for 2 credits.			

246B1B - MATHEMATICAL REASONING *			
Semester Course	Grades 12 (#)	.5 Credit	Prerequisite: Math 3 or Senior Status
All students, regardless of their future plans, need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course may be used as the first of a two part sequence that ends with Quantitative Reasoning as the capstone general education math requirement. *This course is transcribed with NWTC's Mathematical Reasoning course (10-804-134) for 3 credits when taken as a junior or senior.			

250B1B – STATISTICS			
Semester Course	Grades 10–12	.5 Credit	Prerequisite: Math 2 or Math 2 Advanced
This course broadens and enhances the understanding of statistical concepts introduced in earlier Algebra and Geometry courses. This class explores topics of descriptive and inferential statistics and hypothesis testing. This course is intended for those students planning on post-secondary education. A scientific calculator is required. Can be taken simultaneously with other math courses.			

252B1X – ADVANCED PLACEMENT STATISTICS		Grade Indexed (see pg 16)	
Year Course	Grades 10–12 (#)	1 Credit	Prerequisite: Math 3 or Math 3 Advanced
This is a yearlong course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad areas of study: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. The results of the A.P. Exam will determine the level of advanced placement and college credit they may earn. A scientific calculator is required. Graphing calculator recommended.			

253B1X – PHS-SNC STATISTICS		Grade Indexed (see pg 16)	
Year Course	Grades 10–12 (#)	1 Credit	Prerequisite: Math 3 or Math 3 Advanced
This is a yearlong course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad areas of study: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. Students successfully completing this course will receive 4 credits in Statistics from St. Norbert College and students can also choose to take the AP Statistics exam. A scientific calculator is required. Graphing calculator recommended.			

255B1X - MATH ANALYSIS			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Math 3 or Math 3 Advanced
This course extends the study of advanced mathematics beyond college prep algebra, geometry and Algebra 2 while exploring a variety of concepts. Topics include modeling, statistics, sequences, series, conic sections, advanced algebra, advanced trigonometry, vectors, logarithms, advanced functions and matrices. A scientific calculator is required. Can be taken after pre-calculus for students not pursuing a math-related field.			

<b>260B1X – PRE-CALCULUS</b>			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Analysis or Math 3 Advanced
This course extends the depth of study of advanced mathematics while exploring a variety of concepts including analytic geometry, vectors, conic sections, matrices, sequences, series and linear algebra. In addition, a theoretical and deeper understanding of advanced polynomial, exponential, logarithmic and trigonometric functions is explored. The tone of instruction will be aimed toward college bound students interested in a demanding and rigorous study of mathematics. A scientific calculator is required.			

<b>265B1X - PHS-SNC CALCULUS 1</b>		<b>Grade Indexed (see pg 16)</b>	
Year Course	Grade 11-12	1 Credit	Prerequisite: Pre-Calculus and St. Norbert College Acceptance for SNC credit
This course will involve the theoretical development of the elements of Differential and Integral Calculus. The tone of instruction will be aimed towards college bound students interested in a demanding and rigorous study of mathematics. Students successfully completing this course will receive 4 credits in Calculus 1 from St. Norbert College and students can also choose to take the AP Calculus AB exam.			
Students will be required to take the St. Norbert College final exam.			

<b>266B1X – ADVANCED PLACEMENT CALCULUS 1 AB</b>		<b>Grade Indexed (see pg 16)</b>	
Year Course	Grade 11-12	1 Credit	Prerequisite: Pre-Calculus
This course will cover the same curricula as the PHS-SNC Calculus class (265B1X) described above. The difference is that students in this course will not earn college credit through St. Norbert College.			
Students will be required to take the AP Calculus AB exam in May.			

<b>267B1X - CALCULUS 1</b>			
Year Course	Grade 11-12	1 Credit	Prerequisite: Pre-Calculus
This course will cover the same curricula as the PHS-SNC Calculus class (265B1X) described above. The difference is that students in this course will not earn college credit through St. Norbert College and will not be taking the AP Calculus AB exam in May.			
This course will not be grade indexed.			

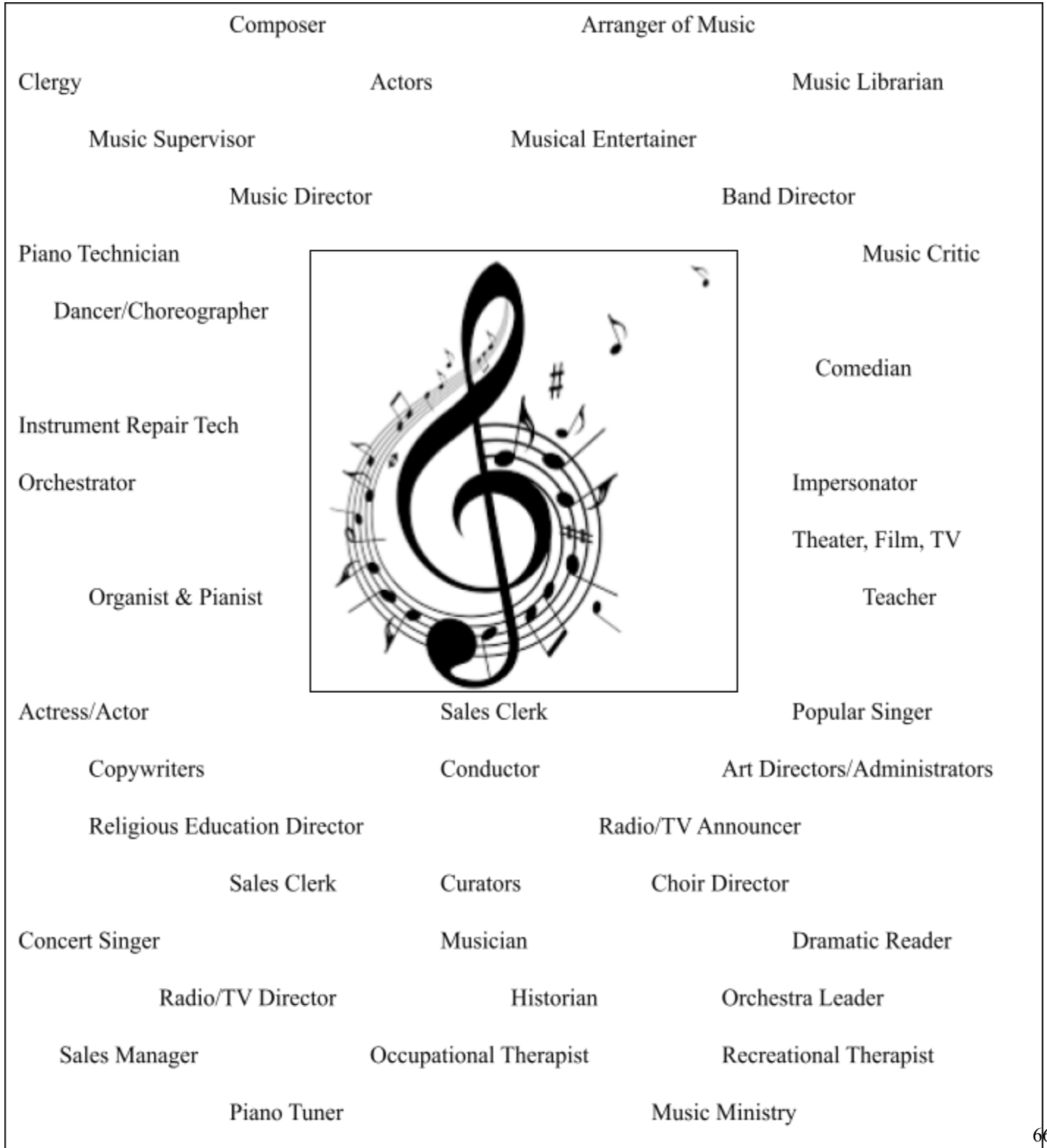
<b>275B1X – PHS-SNC CALCULUS 2</b>		<b>Grade Indexed (see pg 16)</b>	
Year Course	Grade 12	1 Credit	Prerequisite: Calculus 1
This course gives students who have taken Calculus 1 prior to their senior year the opportunity to continue their study of mathematics while at PHS. It is an extension of topics addressed in Calculus 1, as well as a study of topics unique to a second course in Calculus. These topics include advanced integration techniques, using series to approximate functions, the calculus of vectors and first- and second-order differential equations.			
Students taking this course will receive 4 college credits from St. Norbert College and can also choose to take the AP Calculus BC exam.			
Students will be required to take the St. Norbert College final exam.			

<b>276B1X - ADVANCED PLACEMENT CALCULUS 2 BC</b>		<b>Grade Indexed (see pg 16)</b>	
Year Course	Grade 12	1 Credit	Prerequisite: Calculus 1
This course gives students who have taken Calculus 1 prior to their senior year the opportunity to continue their study of mathematics while at PHS. This course will cover the same curricula of PHS-SNC Calculus 2 (275B1X) described above. The difference is that students in this course will not earn college credit through St. Norbert College.			
Students taking this course are required to take the AP Calculus BC exam in May.			

<b>277B1X – CALCULUS 2</b>			
Year Course	Grade 12	1 Credit	Prerequisite: Calculus 1
This course will cover the same curricula of PHS-SNC Calculus 2 (275B1X) described above. The difference is that students taking this course will not earn college credit through St. Norbert College and will not be taking the AP Calculus BC exam in May.			
This course will not be grade indexed.			

# MUSIC

SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN MUSIC



## MUSIC

Course Length	Credit	Name of Course	Course Number	Curriculum Expectations	9	10	11	12	Prerequisite
1 Year	1	Symphonic Band	750B1X	Lessons Chamber Ensembles Optional Solos	X	#	#	#	Middle School band/music experience preferred
1 Year	1	Red Raider Concert Band	751B1X	Lessons Chamber Ensembles & Optional Solos	By Audition Only	X	X	X	Symphonic Band (Audition & Grade School Teacher Recommendation)
1 Year	1	Red Raider Wind Ensemble	752B1X	Lessons Chamber Ensembles & Solos	By Audition Only	X	X	X	Symphonic Band (Audition & Grade School Teacher Recommendation)
1 Year	.5	Red Raider Jazz Ensemble	753B1X	Big Band Rehearsal & Performance Improvisation	#	X	X	X	By Audition Only
1 Year	1	Mixed Choir	755B1X	Lessons S&E Chamber Ensembles	X	X	X	X	None
1 Year	1	Concert Choir	757B1X	Lessons S&E Chamber Ensembles	X	X	X	X	1 yr of Treble Choir or Mixed Choir AND an audition..
1 Year	1	Treble Choir	758B1X	Lessons S&E Chamber Ensembles	X	X	X	X	1 yr of Mixed Choir or an audition
1 Year	.5	Chamber Choir	760B1X	S&E	—	X	X	X	Participation in Concert, Treble, or Mixed Choir and an audition
1 Sem	.5	Music Technology	764B1C	TBD	—	—	X	X	None
1 Year	.5	Music Theory	765B1X	Instruction in reading, writing, sight singing, key signatures, and chord recognition are part of this course as well as basic rhythm and solfege techniques.	X	X	X	X	None
1 Year	1	AP Music Theory [idx]	766B1X	The purpose of this class is to give students a strong basis in sight singing and music theory.	—	#	X	X	Music Theory. Exceptions may be granted after successful completion of an entrance exam and prior consent of the instructor.
1 Sem	.5	Guitar	768B1C	Guitar Method Book & Other Supplemental Resources	X	X	X	X	None

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Music Departments. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels

**X** Department recommendation for enrollment

[idx] This course is Grade Indexed

S&E Solo & Ensemble



750B1X - SYMPHONIC BAND			
Year Course	Grade 9 (#)	1 Credit	Prerequisite: None
Symphonic Band is a training band, preparing students for the Red Raider Bands. In this band, fundamentals and basic skills are stressed more than performance. Musical terms, scales, arpeggios, and musical concepts such as balance, blend, intonation, and style are stressed. Previous instrumental experience in a middle school band is desirable as a prerequisite. However, students with a sincere desire to become a band member may do so without previous band experience by talking to the high school band instructor and receiving special permission.			

751B1X - RED RAIDER CONCERT BAND			
Year Course	Grades 10-12 (#)	1 Credit	Prerequisite: See below
<b>Prerequisite: Symphonic Band unless the student has received special permission from the band director as listed under the Red Raider Wind Ensemble course description.</b>			
The Red Raider Concert Band is an intermediate band that performs Class B and Class A music literature. This is the band that most students in the Symphonic Band will advance to after their freshman year and allows them to become members of the Pep Band. Students continue to work on and improve their fundamental music skills through lessons, band drills, and theory work.			

752B1X - RED RAIDER WIND ENSEMBLE			
Year Course	Grades 10-12 (#)	1 Credit	Prerequisite: Symphonic Band
Red Raider Wind Ensemble is an advanced band that performs Class A music literature. Fundamentals of musicianship and music theory are stressed and then utilized through the practice and performance of the music. Students in this band develop high musical standards that give students a wide variety of music to perform. Auditions are required for admittance; however, students may be moved based upon instrumentation needs. Special permission for freshmen will be granted if the student meets the following criteria:			
<ol style="list-style-type: none"> <li>1. A recommendation from the middle school Band instructor.</li> <li>2. A personal audition with the high school Band Director.</li> <li>3. Final determination made based upon the above two criteria and the instrument needs in the Red Raider Band.</li> </ol>			

753B1X - RED RAIDER JAZZ ENSEMBLE			
Year Course	Grades 10-12 (#)	.5 Credit	Prerequisite: By audition only
The Red Raider Jazz Ensemble is a highly selected group chosen through audition only. All members must be enrolled in another music performance class. This class is intended for students who have already participated in other jazz groups and wish to perform jazz at the highest level. Regular individual practice, listening to jazz, and sectionals are all expected. Members must be available to perform frequently throughout the year. This ensemble meets exclusively outside the school day, primarily in the morning before school and on evenings and weekends for performances. Because the course does not meet on a daily basis, students will receive .5 credits for the full year and grades will be based on attendance, effort and attitude. <u>This course is not part of a student's regular class schedule so students do not sign up for the course on the Student Request Form.</u> Contact the instructor if interested.			

755B1X - MIXED CHOIR			
Year Course	Grades 9-12	1 Credit	Prerequisite: None
Mixed choir is a choir to begin training the voice in singing techniques, theory, and sight-singing in order to prepare them for Treble Choir and/or Concert Choir. There is no prerequisite or audition for this choir. First time high school choir members and those who do not wish to audition for Concert Choir are encouraged to take this course. A variety of music will be studied throughout the year including classical, sacred, secular and pop/musical theatre.			

757B1X - CONCERT CHOIR			
Year Course	Grades 9-12	1 Credit	Prerequisite: 1 yr of Treble Choir or Mixed Choir AND an audition.
This choir is an upper level choir of mixed voice parts. . A variety of musical styles are studied throughout the year including world, Holiday, sacred, secular and classical music. Higher levels of proficiency in singing technique and sight reading ability are developed to meet the demands of the difficult material sung. Auditions are required.			

758B1X - TREBLE CHOIR			
Year Course	Grades 9-12	1 Credit	Prerequisite: audition
An intermediate choir designed to develop reading and singing techniques and theory knowledge for treble voices. Any students who are developing their musical skills are placed in this choir after an audition. This choir should be used as a stepping stone for upper level groups. A variety of musical styles are studied throughout the year including world, Holiday, sacred, secular and classical music.			

760B1X - CHAMBER CHOIR			
Year Course	Grades 10-12	.5 Credit	Prerequisite: Participation in Concert, Treble, or Mixed Choir and an Audition
This chorus is a highly select group chosen through extensive auditioning. All members must be enrolled in another choir class concurrently with chamber choir. This group strives for the highest level of singing proficiency. They perform a variety of styles of music. Singers must be available to perform frequently throughout the year. This course is in 2 semester blocks.  The group meets before school on Wednesdays & Fridays from 6:30 – 7:30 a.m. for ½ credit and each member must meet the minimum hours for rehearsal and performing. <u>This course is not part of a student's regular class schedule so students do not sign up for the course on the Student Request Form.</u> Anyone interested should see the choir director.			

764B1C - MUSIC TECHNOLOGY (Space Limited)			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: Not enrolled in band or choir or permission of instructor
The purpose of this class is to teach students basic elements of music through computer software and technology. These elements include music theory (aural and written), composition, music analysis, and performance. The class will focus on students who do not have a strong music background. It will be a class that is intended for students who are not in a performance ensemble and want to experience music in high school. Students involved in a performing ensemble can be enrolled with the teacher's permission. Through this course students will be able to compose, transpose, and arrange music using modern technology. Students will show an understanding of musical concepts such as theory, musical styles, terms, and other applications. If the course allows, aspects of sound, microphones, mixing fundamentals, Midi, and processing technologies will be explored. Through this learning process students will apply what they are being taught into their projects.			

765B1X - MUSIC THEORY			
Year Course	Grades 9-12	.5 Credit	Prerequisite: None
This course is intended as a prerequisite to AP Music Theory. It is intended for the student considering a career in music in teaching, performance, or technical avenues. Instructions in reading, writing, sight singing, key signatures, and chord recognition are part of this course as well as basic rhythm and solfege techniques.			

766B1X - AP MUSIC THEORY			Grade Indexed (see pg 16)
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Music Theory. Exceptions may be granted after successful completion of an entrance exam and consent of the instructor.
The purpose of this class is to give students a strong basis in sight singing and music theory. It is geared toward the student considering music as a major in further education. It will enable students to prepare for the AP Music Theory test or for the theoretical end of their placement tests for college, or college auditions.			

768B1C - GUITAR (Space Limited)			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
The purpose of this class is for students to learn guitar through individual and group instruction. Instruction will be individualized based on each student's prior experience and knowledge of guitar. Students will set weekly performance goals with the instructor as they progress through the chosen guitar method. A variety of curricular resources will be used, including, but not limited to: Hal Leonard Complete Guitar Method Book, Songsterr & Ultimate Guitar. Acoustic guitars will be provided to students for a rental/maintenance fee of \$25. Students may use their own acoustic guitar if they own one. Electric guitars are permitted, however students must supply their own small, practice amplifier & cable. This course may be taken more than once.			

# PHYSICAL EDUCATION and HEALTH

SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN PHYSICAL  
EDUCATION AND HEALTH



## **PHYSICAL EDUCATION**

### **Requirements:**

1. Freshman Physical Education is required during the freshman year.
2. A minimum of 1.5 credits is needed in Physical Education to graduate. Physical Education must appear on your transcript in 3 of 4 academic years at Pulaski High School (see your counselor for specific details regarding Summer School Phy Ed).
3. Any Physical Education course may be repeated for additional graduation credit except Freshman Physical Education.

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Sem	.5	Freshmen Physical Education	770L1C	X	—	—	—	None
1 Sem	.5	Lifetime Activities	772B1C	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Team Challenge	774B1C	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Team Challenge Adv	775B1C	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Fit for Life	777B1C	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Bigger / Faster / Stronger	780B1A	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Weight Lifting	783B1C	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Rackets/Paddles/Sticks/Nets	787B1C	X	X	X	X	Freshmen Phy Ed
1 Sem	.5	Senior PE Gym	791B1C	—	—	—	X	Completion of PE requirement of 1.5 semesters
1 Sem	.5	Senior PE Fitness Center	792B1B	—	—	—	X	Completion of PE requirement of 1.5 semesters
1 Sem	.5	Summer School Physical Education	798B1S	—	X	X	X	Freshmen Phy Ed
1 Sem	.5	Health	799B1B	X	X	X	X	None

770L1C - FRESHMEN PHYSICAL EDUCATION (PDL & PHY ED 9)			
Semester Course	Grade 9 REQUIRED	.5 Credit	Prerequisite: None
<p>This class is a combination of classroom learning and physical education.</p> <p>Positive Decisions for Life (PDL) is the classroom portion. The focus of this course is healthy decision making in the physical, mental, social and emotional areas of wellness. Students should leave this course with the tools necessary to lead a positive healthy lifestyle while making decisions based on values. A variety of teen centered topics will be explored.</p> <p>PE9 is a traditional fitness-based physical education setting exploring team sports, lifetime activities, fitness activities and an initial weight room orientation.</p> <p>This course <b>MUST</b> be passed in order to take any future PE credits.</p>			

772B1C - LIFETIME ACTIVITIES			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>Lifetime Activities is a class for students that want to explore activities they can continue to do throughout life. The class includes one 30 minute cardio workout a week, along with the following units throughout a semester: badminton, step aerobics, yoga, pilates, golf, zumba, volleyball, tennis, archery, yard games, disc golf, weight training, fitness activities, and eclipseball/nitroball. If you enjoy the non-traditional physical education setting and want to get a good workout in, Lifetime Activities is for you.</p>			

774B1C - TEAM CHALLENGE			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>Team Challenge is for students who enjoy activities in a “team” setting. Units included but are not limited to: football, soccer, lacrosse, volleyball, ultimate frisbee, team handball, indoor speedball, tchoukball, basketball and more. Each unit will include developmental drills and strategies building on team play. If you like activities in a team setting, Team Challenge is for you.</p>			

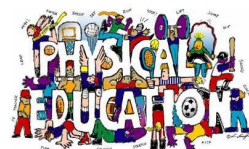
775B1C - TEAM CHALLENGE ADVANCED			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>Team Challenge Advanced is for students who want a competitive, aggressive and highly skilled team setting. Units include but are not limited to: football, soccer, lacrosse, volleyball, ultimate Frisbee, team handball, indoor speedball, tchoukball, basketball and more. Each unit will include developmental drills and strategies building on team play. If you like competitive, aggressive and skilled team games, Team Challenge Advanced is for you.</p>			

777B1C - FIT FOR LIFE			
Semester Course	Grades 9 -12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>This class is tailored toward the fitness needs of the individual student. This activity-based class is presented in multi-levels that are designed for students who want to improve and build their overall cardiovascular fitness, physical abilities and muscle tone. Designed for individuals of all fitness levels and body types, this class will provide low impact options for inexperienced movers and high impact options for the experienced movers. Instructional units covered in this class are: Yoga, pilates, step routines, alternate strength activities, fitness games, weight training, walking, running, zumba, and nutrition. This class meets 3 days a week for an hour with one 30 minute classroom day which will cover fitness and nutrition basics.</p>			

780B1A – BIGGER / FASTER / STRONGER “BFS”			
Semester Course	Grades 9 -12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>Bigger / Faster / Stronger is a conditioning course geared toward the highly motivated student - athlete who wants to improve their strength, power, endurance, agility, and flexibility. The goal of this class is to improve students' athleticism off the field so they can reach their potential on the field. <b>All students will perform the specific BFS workout and conditioning programs.</b> We want our student- athletes working and sweating together toward the same common goal. Please talk with your coach and decide if in-season BFS is best for you, or if off-season BFS is best for you and choose accordingly.</p>			

783B1C – WEIGHT LIFTING			
Semester Course	Grades 9 -12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>Do you like lifting weights? Do you want to learn more about weight lifting and develop your own lifting program? If you answered YES to any of these questions, this is the class for you. In weight lifting class you'll explore a wide variety of lifting exercises and techniques, learn how to lift safely, and be able to develop your own lifting plan. Students will lift three days per week followed by a traditional cardio day. This class is different from Bigger / Faster / Stronger and geared toward students who like lifting on their own.</p>			

<b>787B1C – RACKETS / PADDLES / STICKS / NETS</b>			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: Freshmen Phy Ed
Tennis anyone? How about badminton, table tennis or pickleball? This course is for the student who loves rackets, paddles, sticks and net games. Units include tennis, badminton, table tennis, pickleball, eclipse ball, field hockey, lacrosse, volleyball, and more. If you love the above sports and excel in hand – eye coordination activities, this course is for you.			
<b>791B1C – SENIOR PHY ED GYM</b>			
Semester Course	Grades 12	.5 Credit	Prerequisite: Must have completed 1.5 semesters of PE. Must be a senior.
If you are a senior who has completed the required 1.5 PE credit requirement, yet want to stay active and utilize our gym space for a workout, Senior PE Gym is for you. Students and the teacher will set up the weekly activities to participate in. Weather permitting, outside space will be utilized.			
<b>792B1B – SENIOR PHY ED FITNESS CENTER</b>			
Semester Course	Grades 12	.5 Credit	Prerequisite: Must have completed 1.5 semesters of PE. Must be a senior.
If you are a senior who has completed the required 1.5 PE credit requirement, yet want to stay active and utilize our fitness center for a workout, Senior PE Fitness Center is for you. Students will develop their own weekly workout utilizing weights and cardio machines in the fitness center.			
<b>798B1S - SUMMER SCHOOL PHYSICAL EDUCATION</b>			
Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: Freshmen Phy Ed
<p>Summer School Physical Education class will explore lifetime fitness activities, individual/dual sport challenges, team challenges and will utilize the fitness center facility. Units will include ultimate frisbee, frisbee golf, biking, yard games, tennis, soccer, power walking, jogging, softball, swimming, and more. Also, students will design their own workout program utilizing the fitness center.</p> <p>Dates: Monday, June 19 through Friday, July 21</p> <p>Holiday: Jul 3 - Jul 7</p> <p>Times: 8:00 a.m. to 11:00 a.m.</p> <p>Participants must be aware of the following requirements. Prior to the end of the school year, students and parents will sign a summer school contract confirming understanding of the below guidelines.</p> <ol style="list-style-type: none"> <li>1. Students are expected to attend class every day.</li> <li>2. Any unexcused absence results in being dropped from the class.</li> <li>3. No more than 2 excused absences will be allowed.</li> <li>4. Excused absences are illness, emergencies or pre-arranged absences with the instructor.</li> <li>5. School sponsored events must be pre approved by the instructor and will NOT count as an absence. (Examples: Badger Boys State, Badger Girls State, School Mandatory Band Performance, etc.).</li> <li>6. All excused absences will be made up on July 24th and/or July 25th.</li> </ol> <p>*Credit will be issued during the fall semester of the upcoming school year.</p>			

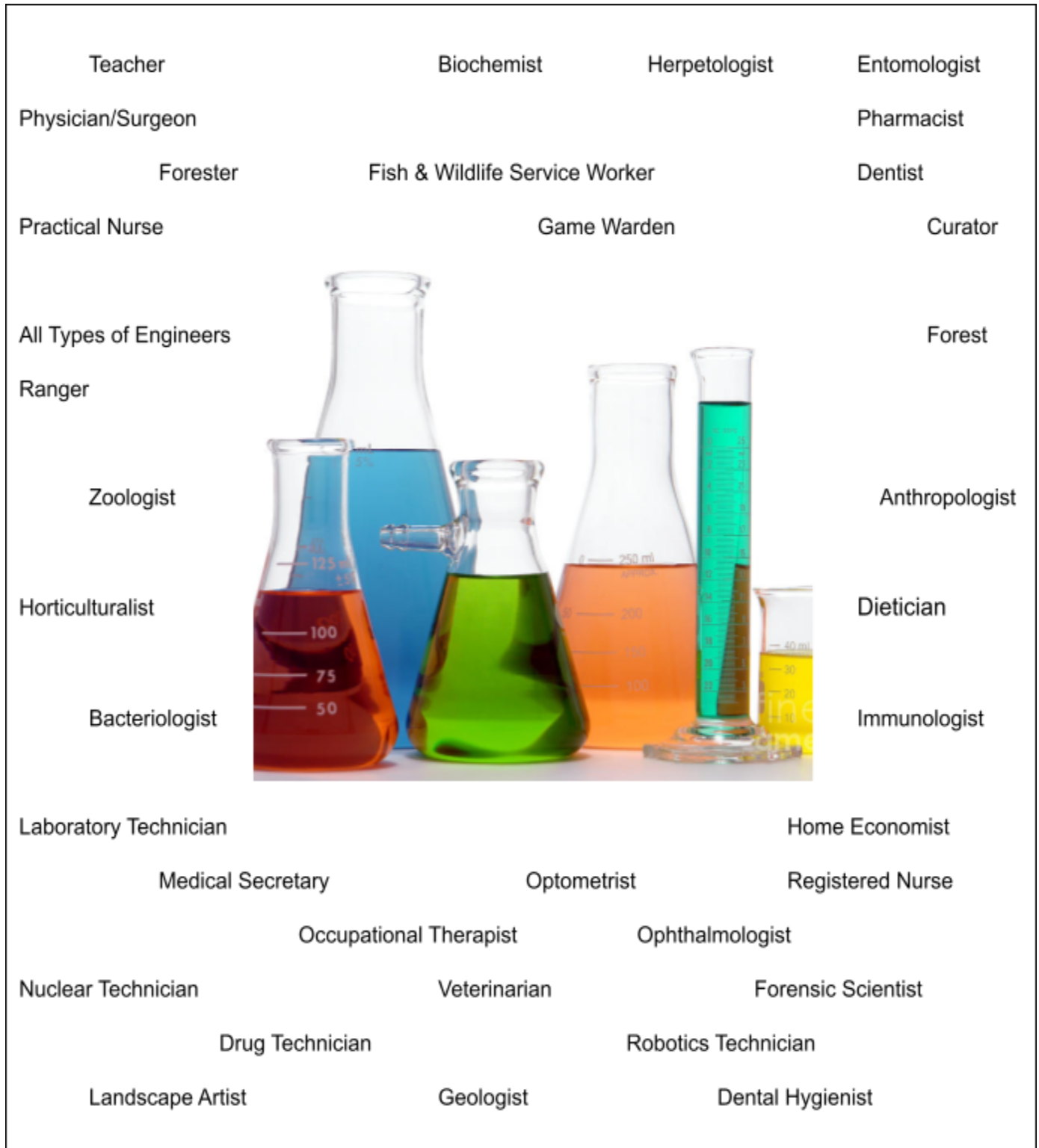


## **HEALTH**

<b>799B1B - HEALTH</b>			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
Health is a semester-long class in which students participate in a wide variety of activities and discussions concerning their physical, emotional, social, spiritual, and mental health. Topics studied help students understand behaviors that lead to a healthy lifestyle. Topics include: Personal Health, Human Growth & Development, Nutrition, Environmental Health, Mental & Emotional Health, Consumer & Community Health and Drugs, Alcohol & Tobacco. This course is required for graduation.			

# SCIENCE

SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN SCIENCE



## SCIENCE

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite
Sem 1	.5	Intro to Chemistry	300B1A	X	X	X	X	
Sem 2	.5	Intro to Physics	302B1B	X	X	X	X	
1 Year	1	Applications in Physical Science	303B1X	X	X	#	#	Recommended by 8th grade science instructor and School Counselor
1 Year	1	Physics**	307B1X	#	#	X	X	Math 1
1 Year	1	AP Physics 1 [idx]	309B1X	-	-	X	X	See course description
1 Year	1	AP Physics 2 [idx]	310B1X	-	-	X	X	AP Physics 1
1 Sem	.5	Forensic Science**	315B1B	-	-	X	X	Biology and Chemistry with a "C" or better
1 Year	1	Chemistry**	320B1X	#	X	X	X	Math 1
1 Sem	.5	Organic Chemistry**	322B1A	-	-	X	X	Biology and Chemistry with a "B" or better
1 Year	1	Biology***+	325B2X	X	X	X	X	
1 Year	1	Applications in Biology***+	327B2X	X	X	X	X	Recommended by 8 <sup>th</sup> grade science teacher and counselor or Applications in Physical Science
1 Year	1	AP Biology** [idx]	333B1X	#	#	X	X	1 year of Biology with a "B" average
1 Year	1	AP Chemistry** [idx]	337B1X	#	#	X	X	See course description
1 Sem	.5	Earth Science***+ (Required for graduation starting w/class of 2022)	340B1C	X	X	X	X	
1 Year	1	Basic Anatomy**	342B1X	-	#	X	X	Chemistry or Biology with a "C" or better
1 Year	1	General Anatomy & Physiology** [idx]	343B1X	-	#	X	X	1 year of Biology with a "B" average, "C" or better in Chemistry required.
1 Year	1	AP Environmental Science** [idx]	345B1X	-	X	X	X	Math 1 and Biology
1 Sem	.5	Astronomy	350B1C	X	X	X	X	

+ Required Course

\*\* College Prep Course

[idx] Course is Grade Indexed

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Science Departments. Please contact the PHS counseling office with questions.

X Enrollment available to students in designated grade levels.

**X** Department recommendation for enrollment

The Wisconsin Department of Instruction and the UW-System has determined that the following courses are "science equivalent" and will be counted by them as science credits: Food Science, Principles of Engineering, Biotechnology, Small Animal Vet Science 2, Animal Science, Large Animal Vet Science, Ag Products & Processing, Zoology & Wildlife Science, Marine Biology & Aquaculture, and Horticulture. For information about these courses, please refer to the appropriate department.



300B1A – INTRODUCTION TO CHEMISTRY			
Sem 1 Course	Grades 9 – 12	.5 Credit	Prerequisite: None
This course is a one semester offering designed to help students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Topics include, but are not limited to: measurement, atomic structure, electron configuration, periodicity, bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, and equilibrium. The mathematics prerequisite skills are based on middle school mathematics topics such as data analysis, measurement, scientific notation, ratio and proportion, and algebraic expressions.			

302B1B – INTRODUCTION TO PHYSICS			
Sem 2 Course	Grades 9 – 12	.5 Credit	Prerequisite: None
This course is a one semester offering designed to help students recognize the nature and scope of physics and its relationship to the other sciences. Students will learn about basic topics such as motion, forces, energy and heat, momentum, and waves. Students will be engaged in scientific inquiry, investigations, and labs so that they develop a conceptual understanding and basic scientific skills. The mathematics prerequisite skills are based on middle school mathematics topics such as data analysis, measurement, scientific notation, ratio and proportion, and algebraic expressions.			

303B1X - APPLICATIONS IN PHYSICAL SCIENCE			
Year Course	Grades 9-10 (#)	1 Credit	Prerequisite: Recommended by 8 <sup>th</sup> grade science teacher and counselor
Applications in Physical Science is a hands-on course that covers the topics of measurement, physics of motion, states of matter, energy and fuel sources, and waves. <b>This course is intended for those students with difficulties in science education.</b> This course will NOT meet 4 year university/college entrance requirements.			

307B1X - PHYSICS			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Math 1
Physics is an introductory survey course covering units in mechanics and motion, vectors, momentum and energy, waves, sound and light. The course combines a conceptual approach with quantitative problem solving. Knowledge of algebra and right triangle trigonometry is expected. Several demonstrations and many hands-on lab activities are used to connect the concepts and applications. Physics is recommended for all students who plan to further their education beyond high school. Physics is of special benefit for students who are considering career opportunities in scientific fields such as engineering, medicine, science technology, computer science or architecture. Pending administrative approval, the course may culminate with a Physics Day field trip to 6 Flags in May.			

309B1X - ADVANCED PLACEMENT PHYSICS 1			
Year Course	Grades 11-12	1 Credit	Grade Indexed (see pg 16) Prerequisite: (There is not a Physics prerequisite). Students should have completed geometry and be concurrently taking Math 3 or the equivalent
This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. No prior coursework in physics is necessary. This course serves as the prerequisite to AP Physics 2. Students taking this class will be expected to take the AP Physics 1 exam. Pending administrative approval, the course may culminate with a Physics Day field trip to 6 Flags in May			

310B1X - ADVANCED PLACEMENT PHYSICS 2			
Year Course	Grades 11-12	1 Credit	Grade Indexed (see pg 16) Prerequisite: Students should have completed AP Physics 1 and concurrently taking pre-calculus or the equivalent
This course is an algebra-based, introductory college level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students taking this class will be expected to take the AP Physics 2 exam.			

315B1B – FORENSIC SCIENCE			
Semester Course	Grades 11-12	.5 Credit	Prerequisite: Biology and Chemistry with a "C" or better
Forensic Science is a semester course which incorporates Biology, Chemistry, Physics, Entomology, Earth Science, Anatomy and Physiology as well as other aspects of Science. Major topics include processing a crime scene; collecting and preserving evidence; identifying types of physical evidence; organic and inorganic analysis of evidence, hair, fibers, and paint; toxicology, arson and explosion investigations; serology; DNA; fingerprints; firearms; and document analysis. This course combines basic theory and real laboratory experiments, creating an experiment-based situation for the better understanding of the students. The experiments used			

reinforce previously learned scientific principles rooted in Biology, Chemistry and Physics. Students must have completed Biology and Chemistry.

### 320B1X – CHEMISTRY

Year Course	Grades 10-12 (#)	1 Credit	Prerequisite: Math 1
Chemistry is the study of matter and the reason for its physical and chemical properties. The course will explore the model of the atom, periodicity, chemical bonding, chemical formulas and compounds, stoichiometry, the gas laws, states of matter, solutions and acid & base reactions. All topics and major concepts will be reinforced through laboratory activities and experiments. Students will be required to keep a lab notebook. <b>This course, with its rigor, pacing and material, is intended for the student who plans to attend a four-year college.</b>			

### 322B1A – ORGANIC CHEMISTRY

Semester Course	Grades 11-12	.5 Credit	Prerequisite: Biology and Chemistry with a “B” or better
This semester course is designed to provide a fundamental overview of organic chemistry to students interested in pursuing a career in the sciences or medical field (ex: Pre-Med/Nursing). Students interested in a medical field will be required to take organic chemistry in college. This course will give students an advantage by giving them exposure to the material they will experience in their first semester of organic chemistry in college. Upon successful completion of this class, students will understand the relationship between structure and function of molecules, the major classes of reactions, reaction energetics and mechanisms, synthesis of organic compounds, and how to determine structure via various spectroscopic techniques. Several themes are prevalent in each unit of study: nomenclature, chemical and physical properties, structures, mechanisms, common molecules, and the diversity of organic molecules in plants, bacteria, and animals. Many topics also integrate the societal, pharmaceutical or industrial importance of specific compounds.			

### 325B2X - BIOLOGY

Year Course	Grades 9-12	1 Credit	Prerequisite: None
A two-semester course featuring the study of ecology, animals, plants, microbes, cells, human body, genetics and reproduction. The course includes class work, discussions, labs and some topic videos. <b><u>This course is required for graduation.</u></b>			

### 327B2X – APPLICATIONS IN BIOLOGY

Year Course	Grades 9-12	1 Credit	Prerequisite: Recommended by 8 <sup>th</sup> grade science teacher and counselor or Applications in Physical Science
Applications in Biology is a hands-on course that covers the topics of ecology, animals, plants, microbes, cells, human body and reproduction. <b>This course is intended for those students with difficulties in science education.</b> This course will NOT meet 4 year university/college entrance requirements. All tests are read aloud in this course.			

### 333B1X - ADVANCED PLACEMENT BIOLOGY

**Grade Indexed (see pg 16)**

Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Biology with at least a “B” average
This course is designed to be the equivalent of the general biology course usually taken during the first year of college. AP Biology is designed to give students an opportunity to do an in-depth study of life science using college level resources, and lab applications. Some of the topics to be studied include molecular biology, genetics, evolution and plant/animal function and development. The course is intended for students with a high interest in biology and who plan post-high school training in a life science related field. Students who take this class will be required to take the Advanced Placement Biology exam.			

### 337B1X - ADVANCED PLACEMENT CHEMISTRY

**Grade Indexed (see pg 16)**

Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Chemistry with at least a “B” average.
This course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. Fundamental topics are covered in greater depth and with more refined concepts. AP Chemistry provides students the opportunity to develop their ability to think clearly and to express their ideas orally and in writing with clarity and logic. Strong emphasis is placed on lab work, chemical calculations, and the mathematical formulation of principles. The course is intended for students who plan post high school training in a physical science related field. Students who take this class will be required to take the Advanced Placement Chemistry exam.			
Students will be given a summer assignment which will serve as a review of what knowledge they should know from first year chemistry. Optional summer courses for review are offered if students are interested.			

340B1C - EARTH SCIENCE			
Semester Course	Grades 9-12	.5 Credit	Prerequisite: None
Earth Science is a study of the planet Earth – its features, its forces, and its place in the solar system. In this semester course, students will explore Earth’s complex and interrelated processes. Topics will include, but are not limited to: systems of matter and energy, rock and mineral resources, plate tectonics, natural hazards, Earth’s surface processes, geologic time, and climate patterns. This course emphasizes science and engineering practices such as defining problems, carrying out investigations, developing models, and analyzing data. Students will also investigate the sustainability of human activities and possible solutions to resource problems.			
<b><u>This course is required for graduation starting with the class of 2022.</u></b>			

342B1X – BASIC ANATOMY *			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Chemistry or Biology with a "C" or better
This course examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems.			
<b>*This course is transcribed with NWTC’s Basic Anatomy (10-806-189) for 3 credits when taken as a junior or senior.</b>			

343B1X - GENERAL ANATOMY and PHYSIOLOGY *			Grade Indexed (see pg 16)
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Biology with at least a “B” and “C” or better in Chemistry required
General Anatomy and Physiology is an upper-level course intended for students interested in studying how the human body works, continuing studies in human biology, or pursuing a career in the science, medicine, or health-related fields. The course would include a significant amount of laboratory and research work used to expand student understanding of the body’s structures and functioning. Using a body system approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare future health care professionals, who need to apply basic concepts of whole body anatomy and physiology, in making informed decisions and communicating professionally with colleagues and patients.			
<b>*This course is transcribed with NWTC’s General Anatomy and Physiology (10-806-177) for 4 credits when taken as a junior or senior.</b>			

345B1X - ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE			Grade Indexed (see pg 16)
Year Course	Grades 10 – 12	1 Credit	Prerequisite: Math 1 and Biology
AP Environmental Science Provides an investigative approach to the interrelationships of the natural world through the study of the fundamental concepts, principles, and methodologies of environmental science, with an emphasis on inquiry and critical thinking skills including problem solving and experimental investigations. Topics of study include Earth systems and resources, ecosystems and energy flow, population biology, land and water use, energy resources and consumption, pollution, agriculture conservation and global change. Laboratory work and field studies are an integral component of this course.			
Students will be required to take the Advanced Placement test.			

350B1C - ASTRONOMY			
Semester Course	Grades 9 - 12	.5 Credit	Prerequisite: None
This course offers a one semester introduction to astronomy. Astronomy provides students with the opportunity to study the physics of the universe, the galaxy, and the solar system. Topics will include properties of light, stars and the structure of the sun, planets, galaxies, gravity and planetary motion, sky cycles and cosmology. Students will also learn the basics of backyard observational astronomy and be able to identify constellations, stars, and planets in the night sky.			

# SOCIAL STUDIES

SOME OCCUPATIONS RELATED TO INTEREST  
AND ABILITY IN SOCIAL STUDIES



The following occupations are listed around a central globe image:

- Literacy Writer
- GIS Specialist
- Foreign Correspondent
- Military
- Editor
- Forensic Psychologist
- Logistics
- Neuropsychologist
- Historian
- Sport Psychologist
- Clergy
- International Business
- Political Scientist
- Script Writer
- Lawyer
- Genealogist
- Paleontologist
- Economist
- Realtor
- Anthropologist
- Sociologist
- Social Psychologist
- Public Relations Director
- Ethnologist
- Teacher
- Statistician
- Archaeologist
- Social Worker
- Reporter
- Industrial Psychologist
- Education Psychologist
- Experimental Psychologist
- Cartographer
- Personnel Manager
- Research Director
- Nursing Service Director
- Actuary
- Counseling Psychologist
- Marketing Psychology
- Archivist
- Librarian
- Carpenter
- Demographer
- Sustainable Engineer
- Urban Planner
- Geographer
- Public Health Service
- Foreign Service Officer

## **SOCIAL STUDIES**

Students need three (3) credits of Social Studies for graduation. This must include successful completion of Social Studies 1, Social Studies 2, and Social Studies 3. Completion of these three offerings will put the student in position to adequately pass any state of Wisconsin exit level exam for high school graduation, should one be implemented. This exam would include questions from geography, economics, government, and history. We also have electives for students who are college-bound, would just like to study further in the Social Studies area to enhance their learning, or have a particular interest in a given subject area. Three of our electives are Advanced Placement classes. Advanced Placement U.S. History can be taken instead of Social Studies 3 and Advanced Placement European History can be taken instead of Social Studies 2 (see course descriptions).

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>Project</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Year	1	Civics + (Social Studies I)	100B1X	Yes	X	X	-	-	None
1 Year	1	World History + (Social Studies II)	105B3X	Yes	-	X	X	-	Civics
1 Year	1	Advanced Placement European History (Taken in place of Social Studies II) [idx]	107B1X	Yes	-	X	X	X	B+ or higher in Civics. Must be enrolled in Adv Eng 10.
1 Year	1	United States History + (Social Studies III)	110B1X	Yes	-	-	X	X	Civics & World History or AP European History
1 Year	1	Advanced Placement U.S. History (Can replace Social Studies III) [idx]	115B1X	Yes	-	-	X	X	Civics & World History or AP European History
1 Sem	.5	Sociology	120B1A	Yes	-	X	X	X	Civics
1 Sem	.5	Global Issues in the Modern World	130B1B	Yes	-	X	X	X	Civics
1 Sem	.5	Intro to Diversity Studies	140B1C	Yes	-	-	X	X	See course description
1 Sem	.5	Psychology	150B1C	Yes	-	#	X	X	Civics & World History
1 Year	1	Advanced Placement Psychology [idx]	152B1X	Yes	-	-	X	X	None
1 Sem	.5	Economics	160B1A	Yes	-	-	X	X	Civics & World History
1 Year	1	Advanced Placement US Government and Politics [idx]	170B1X	Yes	-	X	X	X	None
1 Sem	.5	Geography	180B1B	Yes	-	X	X	X	Civics
1 Year	1	Advanced Placement Human Geography [idx]	185B1X	Yes	X	X	X	X	Freshmen with an "A" in 8 <sup>th</sup> grade social studies, Lexile level of 1100+, and passion for social studies, Sophomores who earned an "A" in Civics, Juniors or Seniors
1 Sem	.5	Contemporary American Society	190B1B	Yes	-	-	X	X	Civics & World History
1 Sem	.5	Criminal Justice	195B1C	Yes	-	-	X	X	Civics & World History

+ Required Course

[idx] This course is Grade Indexed

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and Social Studies Departments. Please contact the PHS counseling office with questions.

<b>100B1X - CIVICS (SOCIAL STUDIES I)</b>			
Year Course	Grades 9 or 10	1 Credit	Prerequisite: None
<p>Social Studies I is a basic Civics and Economics course which introduces you to many social science areas including economics, sociology, current issues, government, and the history of Wisconsin. Topics include citizenship foundation, all levels and branches of government (local, state, federal), the Constitution, politics, elections, and Native American government. During the course of the year you will take part in activities that will help you to become an active and informed citizen of the United States. It does meet the state-mandated one-half credit of government.</p>			
<b>105B3X - WORLD HISTORY (SOCIAL STUDIES II)</b>			
Year Course	Grades 10 or 11	1 Credit	Prerequisite: Civics
<p>The World History course will focus on the years 1500 to the present and will begin with an introduction to world religions and their connections to history. The major eras of world history including the Renaissance and Reformation, the development of nation states, revolutions of the modern world, industrialization, and the five themes of the modern world: nationalism, imperialism, war, totalitarianism and social responsibility will be studied. Geography, economics, and sociology will be integrated into the curriculum so that students become aware of the relationships between different social studies' disciplines. The course will conclude with units on the Cold War, the collapse of the USSR, and the role of the United Nations in the world today.</p> <p>Students are expected to use and develop good writing, reading, organizational, interpersonal, and presentation skills. Written and oral projects are required.</p>			
<b>107B1X - ADV PLACEMENT EUROPEAN HISTORY (Taken in place of World History) Grade Indexed (see pg 16)</b>			
Year Course	Grades 10 - 12	1 Credit	Prerequisite: B+ or higher in Civics is required. Must be enrolled in Advanced English 10.
<p>This course will prepare students to work with college level materials by analyzing historical evidence and developing the ability to express historical understanding in writing. The focus of the course is European civilization from 1450 to the present. Students are expected to demonstrate knowledge of basic chronology, major events, and trends from the High Renaissance to the present. The course will be organized and conducted as a college course to include lectures, debates, and discussions. Also, the course will have a heavy emphasis on writing, research, and readings of primary sources. Exams will reflect the AP test and will consist of multiple choice, short answer essays, document based questions, and free response essays. In addition, summer assignments will be assigned and need to be completed for the first day of school.</p> <p>Course content is designed to provide students with a greater opportunity for success to pass the AP CollegeBoard test in early May. Taking this course does not guarantee that a student will pass the AP exam.</p>			
<b>110B1X - U.S. HISTORY (SOCIAL STUDIES III)</b>			
Year Course	Grades 11 or 12	1 Credit	Prerequisite: Civics, World History or AP European History
<p>Social Studies III is a year-long course that charts the historical development of the current economic, political, and social systems of the United States of America. This course is more than a collection of dates and names; it is an analysis of the forces (many of which are still operating today), which shape American society. In this class, we will examine these forces by looking at the "big picture" of history and how it relates to our lives today. We begin by analyzing the impacts of sectionalism and the Civil War through the current Modern Era and beyond! Students can expect to be involved in a wide variety of activities such as: projects, creation of visual materials, simulations, group activities, debates and discussions. Various resources will be used to further develop organizational, written, presentation and interpersonal skills.</p>			
<b>115B1X - ADVANCED PLACEMENT U.S. HISTORY (Taken in place of United States History) Grade Indexed (see pg 16)</b>			
Year Course	Grades 11 or 12	1 Credit	Prerequisite: Civics & World History
<p>Advanced Placement U.S. History is a college course offered by the CollegeBoard.</p> <p>This course is designed for students who want a more robust experience exploring the history of The United States of America providing insight and opportunities to dig deep into America's past. This comprehensive U.S. History course will provide students the opportunity to work with college level reading materials. The course will explore United States history from colonial times to the present and is designed to cover the topics and refine the skills needed to provide students with an improved chance for success at passing the Advanced Placement (AP) CollegeBoard Exam in early May.</p> <p>This course will be organized and conducted to include lectures, activities, debates, homework including projects, and discussions. Students can expect emphasis on writing for social studies, as well as reading and analysis of primary source documents and continued development of written, organizational and verbal skills which are essential for students who enroll in this course. Summer homework may be required.</p>			

120B1A - SOCIOLOGY			
Semester Course	Grades 10-12	.5 Credit	Prerequisite: Civics
<p>This course is designed for post-secondary high school bound students who would like to broaden their knowledge of sociology and the study of people in groups. Students explore why people make decisions differently in groups than if by themselves. Basic concepts, principles, and methods central to the scientific study of sociology will be explored. Topics covered include the sociological imagination, research, cultures, socialization and gender, social structure and social stratification, groups and ethnic diversity, and deviance and social control.</p> <p>This course has a required text and students will participate in a variety of activities including research and exploration of sociological concepts within our society. Students will be required to apply these concepts to their own life through written and oral assessments.</p>			
130B1B - GLOBAL ISSUES IN THE MODERN WORLD			
Semester Course	Grades 10-12	.5 Credit	Prerequisite: Civics
<p>Global Issues in the Modern World is a course designed to involve students in thinking critically about a broad range of contemporary issues. Discussion will focus on topics such as: international conflict and security, the global economy, the environment, immigration, and human rights. Students will become familiar with different points of view and perspectives related to each issue including those of various national governments and international organizations.</p> <p>This course uses a variety of sources and requires students to effectively research, debate, collaborate, form opinions, write and present.</p>			
140B1C – INTRO TO DIVERSITY STUDIES *			
Semester Course	Grades 11 or 12	.5 Credit	Prerequisite: Civics and World History Required & Sociology is recommended. An open mind and willingness to challenge your personal beliefs will be beneficial.
<p>This course provides the opportunity for the learner to develop the knowledge, skills, process and understanding of diversity. This course draws from several disciplines to reaffirm the basic American values of justice and equality by reviewing, discussing and understanding the following: a basic vocabulary, a history of immigration and conquest, principles of trans-cultural communication, legal liability and the value of aesthetic production to increase the probability of respectful encounters among people. In addition, we will examine majority/minority relations in a multicultural context, considering such topics as: ageism, sexism, gender differences, sexual orientation, religious diversity, racism, classism, ableism, and pluralism in schools and society.</p> <p><b>*This course carries advanced standing with NWTTC's Intro to Diversity Studies (10-809-172) if the student earns a "B" or better when taken as a junior or senior.</b></p>			
150B1C – PSYCHOLOGY			
Semester Course	Grades 11 or 12	.5 Credit	Prerequisite: Suggested for Juniors and Seniors
<p>This course is designed for students who would like to broaden his or her understanding of human behavior. Students are introduced to the many areas studied by the psychologist. Some of the areas covered include: sensation and perception, paranormal psychology, biological influences on behavior, learning historical development of psychology, psychological theories, emotional development, social development, personality and sex role development, mental illnesses, and parenting.</p>			
152B1X - ADVANCED PLACEMENT PSYCHOLOGY			Grade Indexed (see pg 16)
1 Year	Grades 11 or 12	1 Credit	Prerequisite: Suggested for Juniors and Seniors
<p>Advanced Placement Psychology is a college course offered by the College Board.</p> <p>Advanced Placement Psychology is designed to introduce students to the systemic and scientific study of the behavior and mental processes of human beings and other animals. The course will include the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Major content areas covered by this course and the Advanced Placement-CollegeBoard Examination include the brain's influence on behavior, history and approaches, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. Taking this course is designed to improve the student's chance of passing the College Board's Advanced Placement Psychology Exam in May by covering the content and skills necessary for success. Coursework will include college level reading and writing. This course will be organized and conducted as a college course.</p>			
160B1A - ECONOMICS			
Semester Course	Grades 11 or 12	.5 Credit	Prerequisite: Civics & World History
<p>This course is an extension and further study of economic concepts that have been introduced in Social Studies I &amp; II. It examines the economic way of thinking, the tools an economist uses to study the economy and selected areas in microeconomics as well as macroeconomics. The course will address such areas as the workings of capitalism, supply and demand, the role of government in the</p>			

economy, GDP (gross domestic product), competition in the marketplace, and the global economy. This course is designed for students who plan post-secondary education and fulfills the Personal Financial Management graduation credit requirement.

### **170B1X - ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS Grade Indexed (see pg 16)**

Year Course	Grades 10-12	1 Credit	Prerequisite: None
<p>AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.</p> <p>This course is designed to cover the topics and skills needed to improve the chance of passing the Advanced Placement (AP) CollegeBoard Exam in early May. Taking this course does not guarantee that a student will pass the test. Course work will include college level reading and writing.</p>			

### **180B1B - GEOGRAPHY**

Semester Course	Grades 10-12	.5 Credit	Prerequisite: Civics
<p>Geography is an elective course open to sophomores, juniors, and seniors. This course offers a survey of world regions in both the Eastern and Western Hemispheres. The goal of this course is to familiarize students with major physical characteristics of the world and where they are located, as well as political boundaries. Map skills and cartography are stressed throughout the course. Additional topics include human geography and the distribution and characteristics of the world's population, urban studies, history and culture, the environment and demographics. This course requires a basic text, a variety of current sources and is project based.</p>			

### **185B1X – ADVANCED PLACEMENT HUMAN GEOGRAPHY Grade Indexed (see pg 16)**

Year Course	Grades 9-12	1 Credit	Prerequisite: Freshmen with an “A” in 8 <sup>th</sup> grade social studies, Lexile level of 1100+, and passion for social studies, Sophomores who earned an “A” in Civics, Juniors or Seniors
<p>AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Units of study include population, culture, political organization, agriculture and rural land use, industrialization and development, and cities and urban land use. The goals of the course include using and thinking about maps and spatial data, understanding the relationships among phenomena occurring in the same place, interpreting different relationships among patterns and processes, and defining regions and the regionalization process.</p> <p>This course is designed to cover the topics and skills needed to improve the chance of passing the Advanced Placement (AP) CollegeBoard Exam in early May. Taking this course does not guarantee that a student will pass the test. Course work will include college level reading and writing.</p>			

### **190B1B - CONTEMPORARY AMERICAN SOCIETY**

Semester Course	Grades 11 or 12	.5 Credit	Prerequisite: Civics & World History
<p>Contemporary American Society is a course designed to involve students in discussions about today's society. The course will cover issues that illustrate how our traditional institutions (family, education, religion, government, and economy) are evolving and changing. Students will explore the implications of those changes. The discussions will be centered on the themes of: freedom, prosperity, democracy, and culture and the institutions that promote each. By exploring contemporary issues, students will develop their critical thinking skills. This course utilizes a variety of current resources and requires successful completion of both oral and written assessments.</p>			

### **195B1C - CRIMINAL JUSTICE**

Semester Course	Grades 11 or 12	.5 Credit	Prerequisite: Civics and World History
<p>Why would someone commit a crime? How does the legal system deal with criminals? What job opportunities are available in the criminal justice field? If the criminal legal, or policing fields of study interest you, Criminal Justice will help expand your knowledge in these areas. The purpose of this course is to examine the aspects of the criminal justice system in the United States – from both the historical and modern perspectives. Topics of exploration include: causality of crime, the processes and procedures involved in criminal law, the role of enforcement agencies such as the police and FBI, the corrections system, the death penalty, and current issues within the field of study. Students will participate in a variety of activities including, but not limited to: research, educationally supported debates, and interaction with community members involved in the field of criminal justice.</p>			

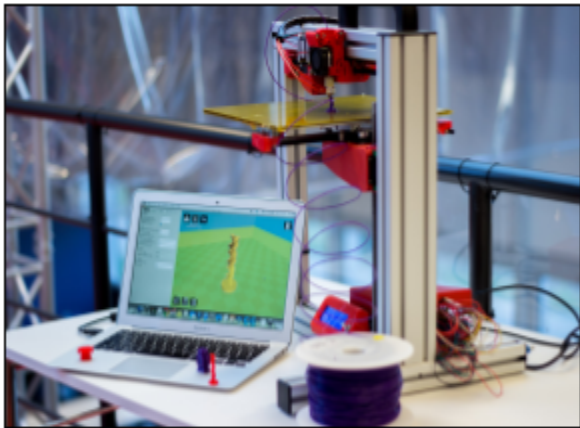


# TECHNOLOGY and ENGINEERING EDUCATION

## [Overview Video of all Technology and Engineering Classes](#)

SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN TECHNOLOGY AND  
ENGINEERING EDUCATION

Engineering: Civil, Mechanical, Industrial, Architectural, Electrical, Chemical, Environmental, Manufacturing,  
Networking, Software, Structural, Packaging, and Aeronautical

Design Engineer	Technology Education Teacher	Electrician	Aircraft Technician
CAD Designer	Welder	Sheet Metal Fabricator	
CNC Machinist	Electro-Mechanical Technician	Mason	
Construction Management	Cabinet Maker	IT Specialist	
Draftsperson Architectural		Network Associate	
Heavy Machine Operator		Logger	
Carpenter		Plumber	
Machinist		Painter	
Press Operator		Plant Operator	
Drafter			
Diesel Technician		Web Designer	
Cement Mason	Sheet Metal Worker	Programmer	
Technical Engineer	Mechanical Designer	Automotive Technician	Tool and Die Maker
Mechanical Maintenance	Project Manager		
	Architect		
Lineman	Auto-Body Technician		

Pathway	1st Level (9-12)	2nd Level (9-12)	3rd Level (10-12)	4th Level (11-12)
Maintenance, Installation, & Repair	Small Engines		Automotive Technology	*Raider Products - Auto - 1 cr.
Manufacturing/Production			Metal Processes 3	
	Metal Processes 1	Metal Processes 2	Metal Processes Machining - 1 cr.	
				*Raider Products - 1 cr.
Construction/Production	Residential Wiring		Residential Construction	
	Wood Technics 1	Wood Technics 2	Wood Technics 3 - 1 cr.	
				*Raider Products - Woods - 1 cr.
Engineering & Technology	CNC Technology	Electronics		
	Advanced Robotics			
	Intro to Engineering Design - 1 cr.	Principles of Engineering - 1 cr.		*Engineering Design & Development (11-12)-1 cr.
	Computer Aided Drafting	Architecture	Civil Engineering/Arch - 1 cr.	
	Design Essentials: In & Around the Home			
Information Technology	IT: Support: Hardware Intro		Computer Science Principles - 1 cr.	
	Game and App Design		Cybersecurity and Networking 1---	Cybersecurity and Networking 2
			Web Page Design	
	Graphic Communication			*Raider Graphics - 1 cr.
Notes:			3-D Animation	
All courses are 1/2 credit unless otherwise noted.				
Arrows represent a prerequisite or recommendation.				
* These courses are for only Juniors and seniors.				

## TECHNOLOGY and ENGINEERING EDUCATION

Course Length	Credit	Name of Course	Course Number	9	10	11	12	Prerequisite	
1 Year	1	Intro to Engineering Design [idx]	600B1X	X	X	X	X		PLTW Group
1 Year	1	Principles of Engineering-ES [idx]	601B1X	-	X	X	X	Intro to Engineering Design	
1 Year	1	Computer Science Principles [idx]	602B1X	-	X	X	X		
1 Year	1	Civil Engineering & Arch [idx]	604B1X	-	X	X	X	IED or Architecture	
1 Year	1	Engineering Design & Development	610B1X	-	-	X	X	See Chart Above	
1 Sem	.5	Game and App Design	648B1A	X	X	X	X	None	
1 Sem	.5	CNC Technology	611B1B	X	X	X	X		
1 Sem	.5	Robotics	612B1B	X	X	X	X		
1 Sem	.5	Computer Aided Drafting	613B1A	X	X	X	X		
1 Sem	.5	Architecture	614B1B	X	X	X	X		
1 Sem	.5	Graphic Communication	615B1A	X	X	X	X		
1 Year	1	Raider Graphics	654B1X	-	-	X	X	Graphic Communication or Graphic Design, or Web Page Design & successful completion of interview and application	
1 Sem	.5	Residential Wiring	616B1B	X	X	X	X		
1 Sem	.5	Electronics 1	618B1B	-	X	X	X		
1 Sem	.5	Metal Processes 1	621B1C	X	X	X	X		
1 Sem	.5	Metal Processes 2	622B1C	X	X	X	X	Metals 1	
1 Sem	.5	Metal Processes 3	623B1C	-	X	X	X	Metals 2	
1 Sem	1	Metals Processes Machining	624B1A	-	#	X	X	Metals 2	
1 Year	1	Raider Products: Metals	625B1X	-	-	X	X	Metals 2 & completion of application and interview	
1 Sem	.5	Residential Construction	630B1B	-	X	X	X		
1 Sem	.5	Wood Technics 1	634B1C	X	X	X	X		
1 Sem	.5	Wood Technics 2	635B1C	X	X	X	X	Woods 1	
1 Year	1	Wood Technics 3	636B1X	-	X	X	X	Woods 2	
1 Year	1	Raider Products: Woods	638B1X	-	-	X	X	Woods 2 & completion of application and interview	
1 Sem	.5	Small Engine Technology	640B1C	X	X	X	X		
1 Sem	.5	Automotive Technology	641B1B	-	X	X	X	Valid Drivers License & Small Engine	
1 Year	1	Raider Products: Auto	642B1X	-	-	X	X	Automotive Technology & completion of application and interview	
1 Sem	.5	Design Essentials:In & Around the Home	645B1A	X	X	X	X	See Course Description	
1 Sem	.5	Cybersecurity and Networking 1	650B1B	-	X	X	X		
1 Sem	.5	Cybersecurity and Networking 2	651B1B	-	X	X	X	Cybersecurity and Networking 1	
1 Sem	.5	Web Page Design	655B1B	-	X	X	X		
1 Sem	.5	IT: Support: Hardware Intro	656B1A	X	X	X	X		
1 Sem	.5	3-D Animation	658B1B	-	X	X	X	Computer Aided Drafting or IED	
1 Year	.5	Co-Op Class	COPBCX	-	-	-	X	See Course Description	
1 Year	1	Applied Tech Co-Op Job	COPTWX	-	-	-	X	See Course Description	

600B1X - INTRODUCTION TO ENGINEERING DESIGN (PLTW)* Grade Indexed (see pg 16)			
Year Course	Grades 9 – 12	1 Credit	Prerequisite: None
<p><i>Potential Careers: All Engineering Fields, CAD Designer &amp; Drafter</i></p> <p>Students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They will work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and document all their work. Students interested in this course should have taken or are in Math 1 or Math 1 Advanced.</p> <ul style="list-style-type: none"> <li>Students enrolled in this course have the opportunity to receive college credit through UWGB and the CCIHS program.</li> </ul> <p>* Students meeting the proper requirements upon completion of this course may be eligible for dual enrollment through PLTW affiliated universities.</p>			

601B1X - PRINCIPLES OF ENGINEERING—ES (PLTW)* Grade Indexed (see pg 16)			
Year Course	Grades 10 – 12	1 Credit	Prerequisite: Intro to Engineering Design
<p><i>Potential Careers: All Engineering Fields, Mechanical Engineer, Materials Engineer</i></p> <p>Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students will develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Students who successfully complete Principles of Engineering will receive a third year science equivalency credit.</p> <p>The University of Wisconsin school system has agreed to accept the DPI determination that this course can be considered as science equivalent and count as part of the three high school units of science required for admission to UW institutions.</p> <ul style="list-style-type: none"> <li>Students enrolled in this course have the opportunity to receive college credit through UWGB and the CCIHS program.</li> </ul> <p><b>*This course carries advanced standing with NWTC's Mechanical Design-Exploring (10-606-111) if the student earns a "B" or better when taken as a junior or senior.</b></p> <p>* Students meeting the proper requirements upon completion of this course may be eligible for dual enrollment through PLTW affiliated universities.</p>			

602B1X – COMPUTER SCIENCE PRINCIPLES (PLTW)* Grade Indexed (see pg 16)			
Year Course	Grades 10 – 12	1 Credit	Prerequisite: None
<p><i>Potential Careers: Computer Programmer, Software Engineer</i></p> <p>Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber-security, robotics, and simulation.</p> <p><b>*This course carries advanced standing with NWTC's Program: Logic (10-152-140) if the student earns a "B" or better when taken as a junior or senior.</b> * Students meeting the proper requirements upon completion of this course may be eligible for dual enrollment through PLTW affiliated universities.</p>			

604B1X - CIVIL ENGINEERING and ARCHITECTURE (PLTW)* Grade Indexed (see pg 16)			
Year Course	Grades 10 – 12	1 Credit	Prerequisite: IED or Architecture I
<p><i>Potential Careers: Architect, Civil Engineer, Environmental Engineer, Surveyor</i></p> <p>Students will learn important aspects of building and site design and development. They will apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using REVIT, a 3D architecture design software.</p> <p>* Students meeting the proper requirements upon completion of this course may be eligible for dual enrollment through PLTW affiliated universities.</p>			

610B1X - ENGINEERING DESIGN AND DEVELOPMENT (PLTW)			
Year Course	Grade 11-12	1 Credit	Prerequisite: See Pathway Map
<p><i>Potential Careers: All Engineering Fields, Project Manager</i></p> <p>Engineering Design and Development (EDD) is the capstone Project Lead the Way course which allows students to use their skills and knowledge from previous PLTW courses to design a solution to a technical problem of their choosing. This course is an engineering research course in which students will work in teams to research, design, prototype and test a solution to an open-ended engineering problem. At the conclusion of the course, students will present and defend their solution to a panel of outside reviewers. Students will</p>			

need to build a prototype of their design. Students will be allotted \$50 for their prototype, but anything above and beyond would need to be donated by businesses or purchased by the student.

- Students enrolled in this course have the opportunity to receive college credit through UWGB and the CCIHS program.

#### **648B1C - GAME AND APP DESIGN**

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Video Game Designer, Computer Programmer, Software Developer</i> Students will develop games and apps to solve real world problems. Structured activities using multiple programming languages allow students to progress to open-ended projects and problems that require planning, documentation, communication, and other professional skills. Each unit will culminate with students designing an authentic game or app.			

#### **611B1B – CNC TECHNOLOGY**

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: CNC Machinist, CNC Technician, CNC Programmer</i> Students use CNC equipment (Laser engraver, CNC router, CNC plasma cutter, CNC mill, and 3D printer) to produce actual models of their two-dimensional and three-dimensional designs. Students will be designing parts and products using CAD/CAM software and then producing those parts on a CNC machine.			

#### **612B1B - ROBOTICS**

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Robotics Engineer, Electromechanical Technician, Software Developer</i> Students apply the principles of robotics and automation to solve real world problems. Fundamental concepts of robotics used in automated manufacturing are embedded throughout the course. NOTE: This class is open to both students who took Robotics in middle school and those who did not.			

#### **613B1A - COMPUTER AIDED DRAFTING**

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Drafter, Mechanical Designer, Architectural Drafter</i> This course introduces the student to Computer Aided Design (CAD) technology as well as traditional sketching methods. Areas of study include multi-view drawing, dimensioning, auxiliary views, sectional views, technical illustration, mechanical and architectural design. Students will be introduced to AutoCAD, Inventor, and REVIT from the AutoDESK suite of software. • Students enrolled in this course have the opportunity to receive college credit through UWGB and the CCIHS program.			

#### **614B1B - ARCHITECTURE**

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Architectural Drafter, Architect, Urban Planner</i> This course is concerned with the basic detail, design, and presentation of residential architecture. A problem-based approach will be used and is aligned with a local design competition which provides cash payouts to the top three entries. Emphasis will be on creativity, construction details, structural design, and planning. The course utilizes REVIT, a 3D Computer Aided Design (CAD) system.			

#### **615B1A - GRAPHIC COMMUNICATION**

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Graphic Designer, Printing Press Operator, Graphic Artist</i> This course gives students the opportunity to develop 21 <sup>st</sup> century skills in both software and hardware as it relates to digital image creation, collection, preparation, and file handling through many forms of digital media used in the industry. Students will work with various methods and materials in order to perform real-world printing applications and concepts. Students will be able to explore many different career opportunities in and relating to the graphic communications field including color-electronic prepress operations.			

#### **654B1X - RAIDER GRAPHICS**

Year Course	Grades 11 – 12	1 Credit	Prerequisite: Graphic Communication or Graphic Design, or Web Page Design & successful completion of interview and application
<i>Potential Careers: Graphic Designer, Web Page Designer, Graphic Artist, Entrepreneur</i> Raider Graphics students will engage in solving real-world problems while gaining hands-on work experience in graphic communication and graphic design through the use of necessary software programs that are used in the Graphics Industry, creating a			

“Job Shop” manufacturing business. Employees of the student-run business will receive and process real client’s requests from within the school district, local businesses and individuals for products, which they will perform design layout, cost estimating, material planning, ordering, invoicing, billing, shipping, and all other aspects in addition to the actual production of the products. Students will also develop interpersonal written and oral communication skills, teamwork and collaboration skills, technology and manufacturing skills, responsibility and time management skills, and quality assurance understanding as it applies to work-based learning.

#### 616B1B - RESIDENTIAL WIRING

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
-----------------	---------------	-----------	--------------------

*Potential Careers: Electrician, Lineman, Electrical Installer*

This course covers the fundamentals of residential electrical wiring procedures and codes. Knowledge of electrical principles and wiring skills are developed with several individual and group hands-on exercises in the electrical lab. Careers in the electrical trade will also be explored. Safety glasses are required.

#### 618B1A - ELECTRONICS 1

Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: None
-----------------	----------------	-----------	--------------------

*Potential Careers: Electronic Technician, Electro-Mechanical Technician, Electronic Engineer*

This introduction course is designed for the first-time student to progress from no previous electronics experience to actual circuit design by the end of the term. Lab projects involve hands-on learning mixed with theory, constructing circuits using schematics, modifying existing circuits and designing new ones, troubleshooting techniques, a digital electronics introduction, soldering, and an introduction to basic stamp microprocessor programming

#### 621B1C - METAL PROCESSES 1

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
-----------------	---------------	-----------	--------------------

*Potential Careers: Welder, Fabricator, HVAC, Machinist*

This course explores a variety of metal processes and other processes used in the manufacturing of products. Modern Technology in the form of precision measurement, CNC-Machining, Research & Development, Manufacturing Systems experimentation, and Entrepreneur/Enterprise will be taught. Traditional areas such as welding, Sheet Metal, and Machine Tool Technology are also studied and skills developed. Safety glasses are required.

#### 622B1C - METAL PROCESSES 2

Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: Metal Processes 1
-----------------	---------------	-----------	---------------------------------

*Potential Careers: Welder, Fabricator, HVAC, Machinist*

This course is designed to expand on the Metals 1 program of metal processes used in manufacturing. Closer tolerances will be required in areas of sheet metal work, CNC-Machining, welding, machine tooling, and lathe work. Safety glasses are required.

#### 623B1C - METAL PROCESSES 3

Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: Metal Processes 2
-----------------	----------------	-----------	---------------------------------

*Potential Careers: Welder, Fabricator, HVAC, Machinist*

Students who have successfully completed Metal Processes 1 & 2 can take this course with the idea that they will complete a major project of their choice. Areas that can be worked in are welding, machine tool technology, sheet metal, casting, and forging. Students must select, design, and construct their project. Problems that arise on projects will be explored by all class members using a manufacturing type environment. Safety glasses and good work habits will be required. May be taken more than once only with Instructor approval.

**NOTE:** The cost of a project will depend on size, type of material used, and the hardware installed. Depending on their project, students may need to purchase items (steel, hardware, etc.) outside of the lab. Although many of the projects made in this course are larger, students can meet the requirements by constructing smaller projects (ex. cattails, flowers, metal signs. etc.). Students in the past have built projects for other people (family, neighbors, teachers, etc.), so they did not have to pay anything for the class and actually made money. All students will be allotted \$25 towards a project. Anything over the \$25 cost will need to be paid by the student. Safety glasses are required.

Students can take more than one time with the instructor's approval.

624B1A – METALS PROCESSES MACHINING			
Semester Course	Grades 11 – 12 (#)	1 Credit	Prerequisite: Metal Processes 2
<p><i>Potential Careers: Machinist, Lathe Operator, Mill Operator</i></p> <p>Students who have successfully completed Metal Processes 1 &amp; 2 can take this course. No individual projects are made in this class. With the extended block, two class periods running back to back, students will be able to set-up and construct more complex projects. Areas of emphasis include precision drilling, milling, turning, precision measurements, and CNC machine tool technology. Problems that arise on projects will be explored by all class members using a manufacturing type environment. Safety glasses and good work habits will be required.</p> <p>Students can take more than one time with the instructor's approval.</p>			

625B1X – RAIDER PRODUCTS: METALS			
Year Course	Grades 11 – 12	1 Credit	Prerequisite: Metals 2 and successful completion of the application and interview process
<p><i>Potential Careers: Welder, Fabricator, HVAC, Machinist, Project Manager</i></p> <p>The students participating in Raider Products will have practical real-world and hands-on work experience in metalworking, fabrication, machining, and welding in a "Job Shop" manufacturing business. Employees of the student-run business will receive and process real client's requests from local businesses and individuals for products to which they will perform cost estimating, material planning and ordering, invoicing, billing, shipping, and all other business aspects in addition to the actual fabrication of the products. As an added bonus, the students in Raider products will have developed interpersonal written and oral communication skills, teamwork and collaboration skills, technology and manufacturing skills, responsibility and time management skills, and quality assurance understanding as it applies to work-based learning. Safety glasses are required.</p> <p>Students can take more than one time with the instructor's approval.</p>			

630B1B - RESIDENTIAL CONSTRUCTION			
Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: None
<p><i>Potential Careers: Carpenter, Mason, Plumber, Roofer, HVAC, Any Construction Trade</i></p> <p>Residential construction places emphasis on the practices and construction of houses, garages, and small structures. Students learn how the site is cleared, the structure is designed, how to have designs approved, how to obtain permits needed, and methods used in construction of these structures. Students will be divided into groups for the purpose of research, designing and constructing models, full size structures, and hands-on building experiences. Students will learn to read blueprints, make material lists, make cost estimates, plan the construction sequence, and build a structure. Safety glasses are required.</p>			

634B1C - WOOD TECHNICS 1			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<p><i>Potential Careers: Cabinetmaker, Finish Carpenter, Any Construction Trade</i></p> <p><a href="#">Wood Technics Project Overview</a></p> <p>Wood Technics 1 covers the areas of shop and machine safety, proper use of woodworking machines, use of power and non-power hand tools, construction of joinery, assembly techniques, use of fasteners, wood finishing, exploration of careers, and Computer Numerical Control (CNC) technology. Being a project-based class, students will be able to hone not only their hands-on abilities but also their problem-solving skills. Required projects being completed include a cutting board, mantel clock, choice project, and a CNC project. Students will be supplied with pine as the base material for their wood projects. If they are using a more expensive wood, they will pay the difference in price. Safety glasses are required.</p>			

635B1C - WOOD TECHNICS 2			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: Wood Technics 1
<p><i>Potential Careers: Cabinetmaker, Finish Carpenter, CNC Operator, Any Construction Trade</i></p> <p><a href="#">Wood Technics Project Overview</a></p> <p>Wood Technics 2 covers the following areas of woodworking: reading drawings, wood identification, bill of materials, shop and machine safety, proper use of woodworking machines, proper use of power and non-power hand tools, construction and identification of joinery, wood finishing, and installation of hardware. In addition to constructing a nightstand, students will complete a Computer Numerical Control (CNC) project and a solid surface material project. Students will be supplied with pine as the base material for their wood projects. If they are using a more expensive wood, they will pay the difference in price. Safety glasses are required.</p>			

<b>636B1X - WOOD TECHNICS 3</b>			
Year Course	Grades 10 – 12	1 Credit	Prerequisite: Wood Technics 2
<i>Potential Careers: Cabinetmaker, Finish Carpenter, Any Construction Trade</i> <a href="#">Wood Technics Project Overview</a> Wood Technics 3 is intended for students that want to further develop their cabinet making skills. With the extended amount of time, all year long, students will be able to construct more complex projects than would normally be attempted. In addition to personal projects, students will also have advanced cabinetmaking exercises to complete throughout the semester. The cost of a project will depend on size, type of wood used, and the hardware installed. Depending on their project, students may need to purchase items (plywood, hardware, etc.) outside of the lab. Although many of the projects made in this course are larger, students can meet the requirements by constructing smaller projects (ex. jewelry box, wall vanity, etc.). Students in the past have built projects for other people (family, neighbors, teachers, etc.), so they did not have to pay anything for the class and actually made money. All students will be allotted \$25 towards a project. Anything over the \$25 cost will need to be paid by the student. Safety glasses are required. Students may take this course multiple times for credit. Safety glasses are required. Safety glasses are required.			
Students can take more than one time with the instructor's approval.			

<b>638B1X – RAIDER PRODUCTS: WOODS</b>			
Year Course	Grades 11 – 12	1 Credit	Prerequisite: Wood Technics 2
<i>Potential Careers: Cabinetmaker, Finish Carpenter, CNC Machinist, Any Construction Trade, Project Manager</i> <a href="#">Wood Technics Project Overview</a> Raider Products: Woods will have students solve practical real-world and hands-on work experience in woodworking, fabrication, and using CNC technology in a "Job Shop" manufacturing business. Employees of the student-run business will receive and process real client's requests from local businesses and individuals for products to which they will perform cost estimating, material planning and ordering, invoicing, billing, shipping, and all other business aspects in addition to the actual fabrication of the products. Students will also develop interpersonal written and oral communication skills, teamwork and collaboration skills, technology and manufacturing skills, responsibility and time management skills, and quality assurance understanding as it applies to work-based learning. Safety glasses are required.			

<b>640B1C - SMALL ENGINE TECHNOLOGY</b>			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Small Engine Technician, Parts Manager, PowerSports Technician</i> In this course students will learn a fundamental understanding of internal combustion engine operation, components, and mechanical systems. The topics of this course will cover safety, fluid powers, lubrication, cooling, fuel, and exhaust systems. It will also include a fundamental understanding of basic power equipment operation and applications. This course will be a core introductory understanding of technicians troubleshooting techniques. Safety glasses are required.			

<b>641B1B - AUTOMOTIVE TECHNOLOGY</b>			
Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: <b>Valid Drivers License &amp; Small Engine</b>
<i>Potential Careers: Automotive Technician, Parts Manager, Car Salesperson</i> This course is an introduction to automotive technology for both consumer and technician perspectives. Students will be learning and developing key understandings of technological improvements of vehicles as well as modern industrial standards involving vehicle repair and maintenance. Students will perform numerous hands-on activities within class and lab while working on his/her own vehicle to perform a variety of assignments. Emissions, technological, and consumer impacts will be heavily stressed in addition to the exploration of automotive careers. Safety glasses are required.			

<b>642B1X – RAIDER PRODUCTS: AUTO</b>			
Year Course	Grades 11 – 12	1 Credit	Prerequisite: <b>Automotive Tech. &amp; successful completion of interview and application</b>
<i>Potential Careers: Automotive Technician, Parts Manager, Station Manager</i> Raider Products: Auto will have students solve practical real-world and hands-on work experience in the automotive industry. Employees of the student-run business will receive and process real client's requests from individuals for diagnosis and repair. From there, students will form cost estimating, material planning and ordering, invoicing, billing, and all other business aspects. Students will also develop interpersonal written and oral communication skills, teamwork and collaboration skills, technology and manufacturing skills, responsibility and time management skills, and quality assurance understanding as it applies to work-based learning. Safety glasses are required.			



645B1A – DESIGN ESSENTIALS: IN AND AROUND THE HOME			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: See below
<i>Potential Career: Interior Design, (meant to be an informative course about general home and auto maintenance)</i> Do you like to be creative? By learning how various systems (car, house structure, home mechanicals, etc.) function in and around the home, students will be able to apply that knowledge through various projects. Projects that will be completed will be ceramic tiling, drywall repair and texturing, painting, garden art/sculptures, home energy, furniture repurposing/refurbishing, and basic car repairs/maintenance. This class is meant to be an overview of these different systems. Safety glasses are required.			

650B1B - CYBERSECURITY AND NETWORKING 1			
Semester Course (Fall Semester)	Grades 10 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Network Technician, Network Specialist, Network Programmer</i> This class is designed to provide students with classroom and lab experience in current and emerging network technology. Instruction includes, but is not limited to: cybersecurity safety, networking, network terminology and protocols, network standards, LANs, WANs, OSI model, cabling, cabling tools, routers, router programming, star topology, and IP addressing. Particular emphasis is given to the use of decision-making and problem solving techniques. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment in compliance with all local, state, and federal safety, building, and environmental codes and regulations.			

651B1B - CYBERSECURITY AND NETWORKING 2 *			
Semester Course (Spring Semester)	Grades 10-12	.5 Credit	Prerequisite: Cisco Networking 1
<i>Potential Careers: Network Specialist, Network Programmer, Network Engineer, Network Administrator</i> This is the second course in the networking series. This class is designed to provide students with classroom and lab experience in current and emerging networking technology. Instruction includes, but is not limited to, cybersecurity safety, networking, network terminology and protocols, network standards, LANs, WANs, OSI model, Ethernet, token ring, fiber distribution interface, TCP/IP addressing protocol, dynamic routing, routing, and the network administrator's role and function. Particular emphasis is given to the use of decision making and problem solving. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment in compliance with all local, state, and federal safety, building, and environmental codes and regulations.			
<b>*This course is transcribed with NWTC's IT: Network: Cisco 1 (10-150-163) when taken as a junior or senior.</b>			

655B1B - WEB PAGE DESIGN			
Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Graphic Designer, Web Designer</i> Students will be able to perform multiple methods techniques used in web page development as it relates to business and industry. Students have the opportunity to understand the technical aspect of website development utilizing current methods and trends. Web browsers, mobile devices, industry standards, content management, and hosting will all be important topics of this course. This will be accomplished by using various types of software to understand the fundamental design and operation of websites.			

656B1A – IT: SUPPORT: HARDWARE INTRODUCTION*			
Semester Course	Grades 9 – 12	.5 Credit	Prerequisite: None
<i>Potential Careers: Network Technician, Network Installer</i> This course provides an excellent introduction to the IT industry and interactive exposure to personal computers, hardware, and operating systems. Students participate in hands-on activities and lab-based learning to become familiar with various hardware and software components and discover best practices in maintenance and safety. In addition, the course covers laptops and portable devices, wireless connectivity, security, safety and environmental issues, communication skills, and customer support.			
<b>*This course carries advanced standing with NWTC's IT: Support: Hardware Introduction (10-154-150) if the student earns a "B" or better when taken as a junior or senior.</b>			

658B1B - 3D ANIMATION			
Semester Course	Grades 10 – 12	.5 Credit	Prerequisite: Computer Aided Drafting or IED
<i>Potential Careers: Graphic Designer, Design Animator</i> This course is offered to provide students with the ability to explore and develop skills in the popular world of 3-D animation. Through the use of industry standard software packages, students will gain valuable experience in character creation, animation, lighting, scene development and rendering techniques. Students will work on the development of a variety of projects throughout the course to			

demonstrate comprehension of the skills needed to become a 3D animator. Potential career areas will also be discussed during the course.

### COPBCX - CO-OP CLASS

Year Course	Grade 12	.5 Credit	Prerequisite: Two courses in this department
<p>This senior-level course is designed for students interested in a school-day work experience their senior year. Topics covered include career opportunities, career decision-making process, human relations in the workplace (teamwork, leadership, ethics, sexual harassment, attitude), communications (listening, speaking, writing), legal aspects of employment (payroll, unions), and job-seeking skills.</p> <p>This is a required course for participation in the co-op work experience.</p>			

### COPTWX - APPLIED TECHNOLOGY CO-OP JOB

Year Course	Grade 12	1 Credit	Prerequisite: See Below
<p><b>Prerequisite: Simultaneous enrollment in COPTCX plus successful completion of an Engineering or Technology course in the area of interest or approval of the instructor and counseling department.</b></p> <p>Students are able to apply classroom skills by participating in a work-release program.  Students enrolled in course COPTWX must obtain a job in an Engineering or Technology related career area:</p> <p><u>Graphic Communications</u>: Digital Prepress, Desktop Publishing Specialist, Platemaker, Press Operator, Press Assistant  <u>Transportation</u>: Auto Service Attendant, Auto Body Technician, Auto Technician  <u>Construction</u>: Site assistant, House Repairer, Carpenter, Electrician, Pipe Fitter, Surveyor  <u>Manufacturing</u>: Foundry Worker, Welder, CAD, Designer, Machinist</p> <p><b>**Note:</b> Students can elect to take the classroom portion (COPBCX) without participating in the job site portion (COPTWX). Students must take the classroom portion if they elect to participate in the job site portion.</p> <p>A letter of recommendation is needed from a teacher in the department of work experience.</p>			

# WORLD LANGUAGES

## SOME OCCUPATIONS RELATED TO INTEREST AND ABILITY IN WORLD LANGUAGES

Global Correspondent	Dramatic Coach	Global News Interpreter	Composer
Music Teacher	Physician	Exchange Student Adviser	Immigration Inspector
Aerospace Industry	Information Clerk	Librarian	Anthropologist
Curator	Stenographer	Historian	Travel Agent
Messenger	Spy	Essayist/Author	
Police Officer			Foreign Exchange Clerk
Nurse			Lawyer
Diplomat			FBI Agent
Singer			Travel Agent
Tutor			Doctor
Customs Examiner			
Military	Linguist	Translator	Travel Guide
			Teacher
Social Group Worker	Fashion & Design	Medical Assistant	Import/Export Clerk
Missionary	Foreign Service Worker	Court Interpreter	Salesperson
Receptionist	Actor/Actress	Flight Attendant	Stenographer

## **WORLD LANGUAGES**

<b>Course Length</b>	<b>Credit</b>	<b>Name of Course</b>	<b>Course Number</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Prerequisite</b>
1 Year	1	French I	701B1X	X	X	X	X	
1 Year	1	French II	702B1X	X	X	X	X	French I
1 Year	1	French III	703B1X	#	X	X	X	French II
1 Year	1	French IV	704B1X	—	#	X	X	French III
1 Year	1	AP French V [idx]	705B1X	—	—	#	X	French IV
1 Year	1	Spanish I	721B1X	X	X	X	X	
1 Year	1	Spanish II	722B1X	X	X	X	X	Spanish I
1 Year	1	Spanish III	723B1X	#	X	X	X	Spanish II
1 Year	1	Spanish IV	724B1X	—	#	X	X	Spanish III
1 Year	1	Spanish V	725B1X	—	—	#	X	Spanish IV
1 Year	1	PHS-UWGB Spanish V [idx]	726B1X	—	—	#	X	Spanish IV and grade of B or better in Spanish IV

# Denotes an exception to the standard course sequence. The course is open to students with the pre-approval of both the Counseling and World Languages Department. Please contact the PHS counseling office with questions.

[idx] This course is Grade Indexed

X Enrollment available to students in designated grade levels

701B1X - FRENCH I			
Year Course	Grades 9-12	1 Credit	Prerequisite: None
French I introduces the student to the French language and culture. Students learn practical vocabulary and expressions that would be used in day-to-day situations in a French-speaking country. Students practice all four language skills (speaking, reading, writing and listening) while comparing American culture and way of life to that in French-speaking countries.			

702B1X - FRENCH II			
Year Course	Grades 9-12	1 Credit	Prerequisite: French I
French II continues developing the student's vocabulary base with practical expressions to use in a wider variety of day-to-day situations. Grammar expands to include the past tense and the use of reflexive pronouns.			

703B1X - FRENCH III			
Year Course	Grades 10-12 (#)	1 Credit	Prerequisite: French II
French III expands the student's vocabulary base with the goal of conversational self-sufficiency in day-to-day and travel situations. Grammar study broadens to include a wider variety of verb tenses as well as different types of pronouns. Students immerse themselves in Parisian life, and study the wider French-speaking world.			

704B1X – FRENCH IV (A) (Offered 2024-2025)			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: French III
This advanced course exposes students to the rich history of France, beginning with prehistory and continuing through the middle-ages. Students will also study authentic literature and art as well as the contemporary culture of France, including social structure and technology. Students will also study film and literature from the French-speaking world including Jean de Florette, La Famille Bélier, and Notre Dame de Paris. Students will continue to develop their understanding of advanced grammar, including all compound verb tenses.			
<b>Note: The next class in this progression is French V (B)</b>			

704B1X – FRENCH IV (B) (Offered 2023-2024)			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: French III
This advanced course exposes students to the rich history of France, beginning with the Renaissance and continuing through Decolonisation. Students will also study authentic literature and art as well as the contemporary culture of France, including geography, politics, environmental issues and social structure. Students will also study film and literature from the French-speaking world, including the novels Le Comte de Monte-Cristo and Le Petit Prince, and the films Indochine, and Les Intouchables. Students will continue to develop their understanding of advanced grammar, including all compound tenses.			
<b>Note: The next class in this progression is French V (A)</b>			

705B1X – AP FRENCH V (A) (Offered 2024-2025)			Grade Indexed (see pg 16)
Year Course	Grade 12 (#)	1 Credit	Prerequisite: French IV
This advanced course exposes students to the rich history of France, beginning with prehistory and continuing through the middle-ages. Students will also study authentic literature and art as well as the contemporary culture of France, including social structure and technology. Students will also study film and literature from the French-speaking world including Jean de Florette, La Famille Bélier, and Notre Dame de Paris. Students will continue to develop their understanding of advanced grammar, including all compound verb tenses.			
705B1X – AP FRENCH V (B) (Offered 2023-2024)			Grade Indexed (see pg 16)
Year Course	Grade 12 (#)	1 Credit	Prerequisite: French IV
This advanced course exposes students to the rich history of France, beginning with the Renaissance and continuing through Decolonisation. Students will also study authentic literature and art as well as the contemporary culture of France, including geography, politics, environmental issues and social structure. Students will also study film and literature from the French-speaking world, including the novels Le Comte de Monte-Cristo and Le Petit Prince, and the films Indochine, and Les Intouchables. Students will continue to develop their understanding of advanced grammar, including all compound tenses.			

721B1X - SPANISH I			
Year Course	Grades 9-12	1 Credit	Prerequisite: None
Spanish I introduces the student to communicating in the Spanish language. Emphasis is placed on building everyday interactions through meaningful practice of basic vocabulary and grammatical concepts. The cross-cultural comparisons and connections of products, practices and perspectives of Spanish-speaking countries and our own are also studied.			

<b>722B1X - SPANISH II</b>			
Year Course	Grades 9-12	1 Credit	Prerequisite: Spanish I
Spanish II continues building the student's Spanish communication skills. Speaking, listening, reading, and writing are further developed through increased practice of vocabulary and grammatical concepts. The cross-cultural comparisons and connections of products, practices and perspectives of Spanish-speaking countries and our own are also studied.			

<b>723B1X - SPANISH III</b>			
Year Course	Grades 10-12 (#)	1 Credit	Prerequisite: Spanish II
Spanish III utilizes previously acquired language skills as a basis for more detailed study and practice in the language. Vocabulary is enriched through short readings; grammatical concepts are reviewed and expanded; conversational skills are further developed through group activities, and writing skills are practiced through guided and open-ended compositions. The cross-cultural comparisons and connections of products, practices and perspectives of Spanish-speaking countries, other countries, and our own are also studied.			

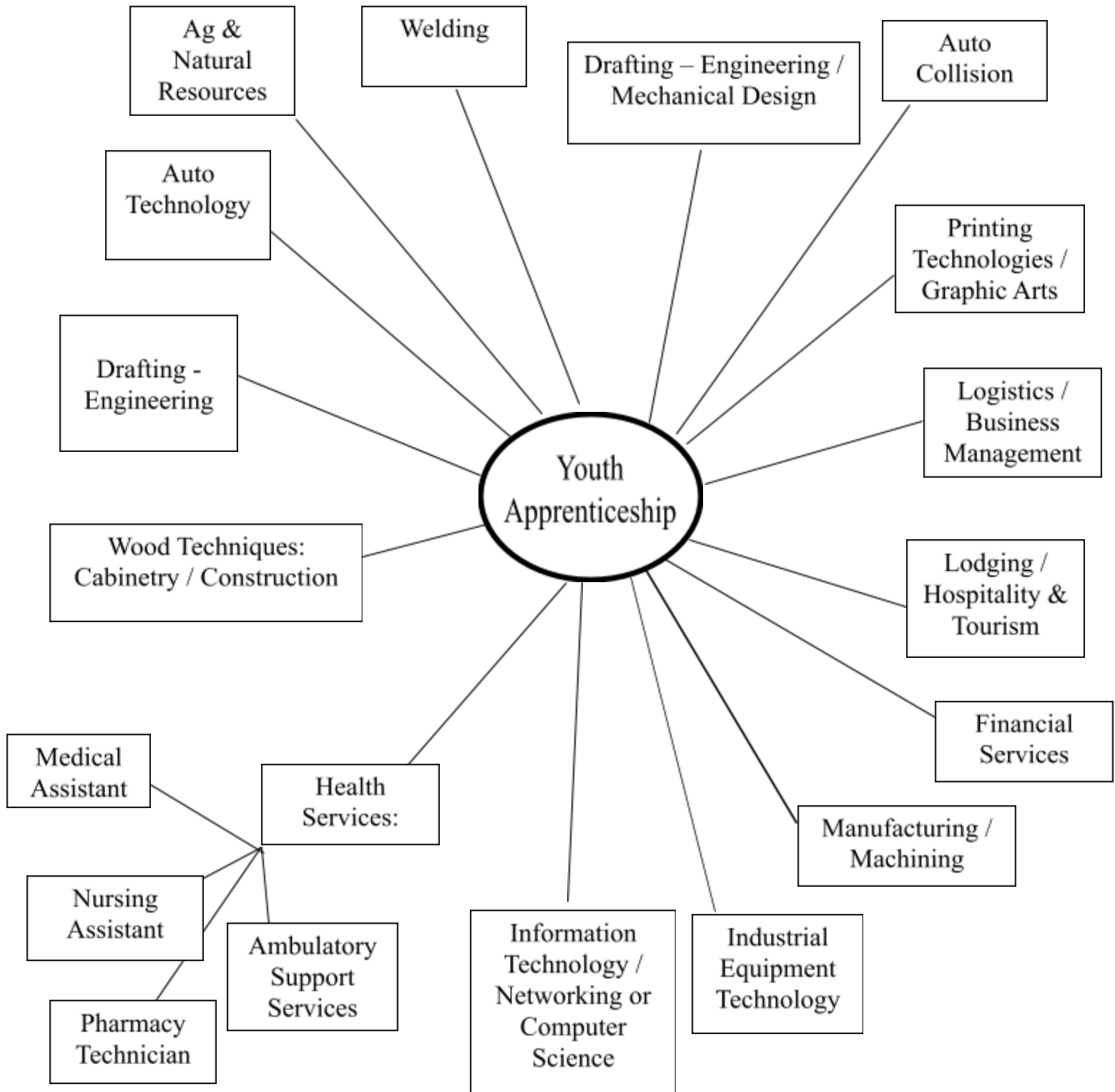
<b>724B1X - SPANISH IV</b>			
Year Course	Grades 11-12 (#)	1 Credit	Prerequisite: Spanish III
Spanish IV further refines the concepts and skills studied in the previous language classes, as well as introduces new ones. A great emphasis is placed on developing conversational and writing proficiencies. First semester is a concise review of Spanish grammar. The literary piece Don Quijote is studied and a unit on the history, geography, and culture of Spain is included. The cross-cultural comparisons and connections of products, practices and perspectives of Spanish-speaking countries, other countries, and our own are also studied.			

<b>725B1X - SPANISH V</b>			
Year Course	Grade 12 (#)	1 Credit	Prerequisite: Spanish IV
Spanish V refines the student's use of intermediate – advanced grammar, vocabulary acquisition, critical thinking, and problem solving skills. Emphasis is placed on oral and written proficiency. The acquisition of cultural competency through Hispanic literature is a major goal. This course includes individual research projects, discussion, role-playing, and cooperative group exercises. Class is conducted entirely in Spanish.			

<b>726B1X - PHS-UWGB SPANISH V</b>			<b>Grade Indexed (see pg 16)</b>
Year Course	Grade 12 (#)	1 Credit	Prerequisite: Spanish IV and grade of B or better in Spanish IV
Spanish V refines the student's use of intermediate – advanced grammar, vocabulary acquisition, critical thinking, and problem solving skills. Emphasis is placed on oral and written proficiency. The acquisition of cultural competency through Hispanic literature is a major goal. This course includes individual research projects, discussion, role-playing, and cooperative group exercises. Class is conducted entirely in Spanish. Students successfully completing this course with a grade of B or better will receive 3 credits in Spanish 202 plus 11 retroactive Spanish credits from UWGB.			
One of the course requirements is to take a UWGB approved final exam.			

# YOUTH APPRENTICESHIP

## OPPORTUNITIES IN THE YOUTH APPRENTICESHIP PROGRAM



## **YOUTH APPRENTICESHIP**

The Youth Apprenticeship Program is coordinated through the Green Bay Chamber of Commerce & is a one or two year program for junior or senior students combining classroom instruction (both high school and NWTC) and paid on-the-job training. By participating, students gain a set of skills and abilities by learning in the classroom and work settings. During the one or two years, students will work (and get paid for) a minimum of 900 hours (450 hours if a one year student) at a local business/industry. Each student's schedule and amount of time spent at PHS will be unique and evaluated on an individual basis.

### **How to Apply:**

Applications for Youth Apprenticeship will be available in January of a student's sophomore/junior year. The deadline for applying is March 2. Since Youth Apprenticeships are competitive, students should register for a traditional schedule, but note on the course request form that they are interested in Youth Apprenticeship. Interviews for positions will take place between April and July. Students accepted into the program should arrange a meeting with their school counselor after employment is secured to design the student's schedule.

<b>AGRICULTURE, FOOD &amp; NATURAL RESOURCES –1 or 2 Years</b>			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship focuses on the production, processing, marketing, distribution, financing, and development of agriculture commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.			

<b>ARCHITECTURE &amp; CONSTRUCTION –1 or 2 Years</b>			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship has pathways within architectural drafting and planning, carpentry, electrical, gas distribution, heavy equipment operation, masonry/concrete fundamentals, mechanical/HVAC, plumbing, and utilities. Students will also have the opportunity to earn the OSHA 10 safety certification.			

<b>HEALTH SERVICES –1 or 2 Years</b>			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
Program areas include medical assistant, nursing assistant, pharmacy technician, ambulatory support services, therapeutic services and diagnostic services.			

<b>ART, A/V TECHNOLOGY &amp; COMMUNICATIONS –1 or 2 Years</b>			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship has pathways in graphic design, printing press operation, and media broadcasting. Students learn about visual layout, software, editing, managing digital files, color concepts, press operation, and typography. The media broadcasting apprenticeship develops essential skills related to the setup, operation, and maintenance of equipment used to transmit audio and video for radio or television.			

<b>FINANCE –1 or 2 Years</b>			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
The apprenticeship focuses on the following areas: performing teller-related functions, performing new account and related service functions, performing accounting operations and functions.			



HOSPITALITY, LODGING & TOURISM –1 or 2 Years			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship focuses on the following areas: <u>Back of the house</u> – maintain and repair equipment, clean and maintain common areas, clean rooms, provide food and beverage services, operate laundry, maintain grounds. <u>Sales</u> – research hospitality trends and changes in the marketplace, plan events, coordinate-marketing strategies, solicit new business. <u>Front of the house</u> – check guests in, check guests out, perform cashier duties, execute in-house audits, reserve rooms, operate switchboards, process correspondence, and provide guest services. <u>Bookkeeping</u> – process payroll, process and approve direct billing, process accounts payable, generate monthly profit and loss statements, process accounts receivable, purchase and receive goods.			
INFORMATION TECHNOLOGY –1 or 2 Years			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship curriculum was developed by Cisco Systems. The apprenticeship will focus on the following areas: decision-making and problem-solving techniques in applying science, mathematics, communication and social studies concepts to networking problems. Instruction focuses on networking fundamentals and includes safety, networking terminology and protocols, LANs and WANs, OSI models, networking components, industry standards, topologies, network design, introduction of premise network cabling, Ethernet, token ring, TCP/IP addressing protocol, routing and the administrator's role and function, and advanced network design and management.			
MANUFACTURING-1 or 2 Years			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship focuses on the following areas: Bench skill, engineering skills, metal cutting operations, inspection and quality assurance skills, computer numerical control skills, work environment skills.			
MARKETING –1 or 2 Years			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship allows students to gain experience generating interest in products or services, selling those products or services, evaluating market conditions, and developing customer service skills.			
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS –1 or 2 Years			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
This apprenticeship will serve as an introduction to engineering and engineering-related fields. Students may work in various areas, including bioscience, civil, mechanical, and electrical engineering.			
TRANSPORTATION, DISTRIBUTION & LOGISTICS-1 or 2 Years			
	Grades 11-12		Prerequisite: Sophomore/Junior in Good Standing
2 credits work site/year—must have job placement to earn this credit; 1-2 credit courses at NWTC=.5 PHS credit; 3-4 credit courses at NWTC=1 PHS credit			
Logistics is the interaction of all the activities involved in moving goods from the point of origin to the point of consumption. This apprenticeship focuses on the following areas: purchasing, inventory control, material handling, production planning, packaging, warehousing, and transportation.			